

European Echinodermata Check-List

a draft for the European Register of Marine Species (part of "Species 2000") compiled at TMBL (Tjärnö Marine Biological Laboratory) by:
Hans G. Hansson January 1999 (revised 2 March 1999)

Geographical area covered at ERMS web site: <http://erms.biol.soton.ac.uk/>

Denotations: (™) = Genotype * = General note

N.B.: This draft list has been made with very limited library resources at hand, using the Echinoderm part of the compilers NEAT lists (available via Internet at address <http://www.tmbi.gu.se/libdb/taxon/taxa.html>) as a starting point. NEAT (North East Atlantic Taxa) are preliminary check-lists, covering Scandinavian marine animal taxa.

The compiler is generally interested in marine fauna, but is not a specialist on any Echinoderm taxon, so there are certainly several omissions and lapses in this draft list.

F.J. Fell's chapter on Echinodermata in "Synopsis and Classification of Living Organisms" (S. Parker (Ed.) 1982, McGraw-Hill) is used as systematic framework. The Asteroids are mainly listed from the recent monograph on Atlantic species by Clark & Downey. Mortensen 1927 is used as a basal source for the other groups. Additions from several other sources have been made, but without access to most reports from the large expeditions (except the Norwegian North Atlantic and the Ingolf) and without access to much of the literature on Echinoderms after WWII, albeit the electronic part of the Zoological Record (covering the last decades) have been useful to some extent.

Authors of most genus and species names in the list below have - with a few exceptions - been found, and most often also the years of description, but with several exceptions. Also, some of the years in this list may be wrong, because different sources often have different opinions regarding which year a certain species is described (e.g. gen. *Poliometra* Clark ; the original publication: 1923, Neave: 1924, McKenzie in Howson & Picton 1997: 1913; in this case the year from the original publication must be correct).

This list has been revised (2 March 1999). Dr. Sabine Stöhr, echinoderm keeper at the SMNH, Stockholm, kindly helped with some of the question marked description years for 8 ophiuroid names, since the first version. Also, Dr. Claude Massin, Brussels kindly helped in sending a list of several corrected and added years of descriptions of holothurians, as well as a few spelling corrections and some added distribution notes, and not least Dr. Massin added 9 omitted species of this taxon to the list. Dr. Andrey Gebruk, Moscow, together with his friends Alexander Mironov and Alexei Smirnov kindly helped with several corrections and additions to the holothurians, the crinoids, the echinoids and the genus *Caulaster* among the asteroids.

The list was again revised (25 September 1999) after receiving several other description years for ophiuroid names as well as advise about a few synonymies from Dr. Sabine Stöhr.

ECHINODERMATA Bruguière,1791 [ex Klein,1734]

PELMATOZOA

CRINOZOA

CRINOIDEA

ARTICULATA

MILLERICRINIDA Sieverts-Doreck 1953

Hyocrinidae Carpenter, 1884
* The only living family of this order

Gephyrocrinus Kehler & Bather, 1902

G. grimaldii Koehler & Bather, 1902
off Madeira & Canaries - equatorial mid-Atlantic, in 1786-3382 m

CYRTOCRINIDA Sieverts-Doreck 1953
* Three living genera

HOLOPODINA Arendt, 1974

Holopodidae Zittel, 1879

Cyathidium Steenstrup, 1846

C. foresti Cherbonnier & Guille, 1972
= *Cyathidium meteorensis* Fechter, 1973
Azores and Great Meteor Bank, (?380 m) 500-850 m

BOURGUETICRINIDA Sieverts-Doreck 1953

Bourgueticrinidae de Loriol, 1882

Conocrinus d'Orbigny, 1850

C. cabioishi Roux, 1976
Biscay, in 1975 - 2070 m.

C. cherbonnieri Roux, 1976
Biscay, in 330 - 511 m.

Democrinus Perrier, 1883
= *Bythocrinus* Döderlein, 1912

D. parfaiti Perrier, 1883
= *Rhizocrinus rawsoni* Koehler, 1909, non Pourtalès, 1874
= *Rhizocrinus magnus* Gislén, 1947
* Roux, 1977 synonymized *Rhizocrinus magnus* Gislén
off S Ireland, off W Gibraltar, Azores, Morocco, Canaries, Madeira, in 1430-4260 m

D. conifer (A.H. Clark, 1909)
= *Rhizocrinus conifer* A.H. Clark, 1909
= *Rhizocrinus robustus* A.H. Clark, 1909
= *Bythocrinus intermedius* A.H. Clark, 1915
off Portugal, Cuba, Brazil, between 160-1750 m

D. rawsonii (Portalès, 1874)
= *Rhizocrinus rawsonii* Portalès, 1874
S of the Wyville Thomson Ridge, off S Canaries, between 70-650 m

Rhizocrinus M. Sars, 1868 (TM *Rhizocrinus lofotensis* M. Sars, 1868 - N. Norway)
(Direction 72 of ICZN)

R. lofotensis M. Sars, 1868
= *Rhizocrinus verrilli* A.H. Clark, 1908

Norway between 58-70°, Between Scotland & Faeroes, off W Faeroes, off SW Iceland, off W Greenland, E North America, below 140 m

Bathycrinidae Bather,1899

Bathycrinus Wyville Thomson,1872 (TM *Bathycrinus gracilis* Thomson,1872 - Bay of Biscay, deep water) (Direction 72 of ICZN)
= *Ilycrinus* Danielssen & Koren,1877

B. aldrichianus Wyville Thomson,1877
= *B. serratus* A.H. Clark,1908
Between Azores and the Gulf of Guinea; from the United States to northern Argentina.
3317 - 5600 m

B. carpenterii (Danielssen & Koren,1877)
= *Ilycrinus carpenterii* Danielssen & Koren,1877
Norwegian & Greenland seas, in 1360 - 2815 m. NE of Novaja Zemlya and from the Laptev Sea, in 560 - 2365 m

B. gracilis Wyville Thomson,1877
the West European & Iberian Basins, Porcupine Abyssal Plain, Porcupine Seabight, Rockall Trough, in 2880 - 5275 m

Monachocrinus A.H. Clark,1919
* 1919 is the year of description according to Nomenclator Zoologicus. Gislén 1938 and A.M. Clark 1970 is using 1917 as year of description.

M. perrieri (Koehler & Vaney,1910)
= *Bathycrinus perrieri* Koehler & Vaney,1910
= *Monachocrinus coelus* H.L. Clark,1923
off W & S Africa, between 1620-2210 m

M. recuperatus (Perrier,1885)
= *Ilycrinus recuperatus* Perrier,1885
off W Gibraltar, off N Azores, between 2300-4260 m

M. sexradiatus A.H. Clark,1919
SW of Iceland, in 2075 m

Phrynocrinidae

Zeuctocrinus A.M. Clark,1973
* Belonging to Bathycrinidae?

Z. gisleni A.M. Clark,1973
C. 400 nautical miles west from Northern Ireland, in 53° 11,2'N, 20° 05,1'W, in 2432-2380 m

Porphyrocrinidae

Porphyrocrinus Gislén,1926

P. incrassatus (Gislén,1933)
Biscay Bay (48° 28'N, 9° 50'W, 1300 m, and 48° 41'5"-48° 39'N, 10° 53'-10° 55'2" W, in 1420 - 1470 m, Roux 1977), St Helena, in 2400-2780 m (Gislén 1933)

P. thalassae Roux,1977

Biscay Bay (44° 10'N, 7° 46'2 - 7° 45'3 W, in 2000 - 2110 m (Roux 1977), off NW Spain (41° 49'N, 11° 06'W, in 2574-2584 m (A.M. Clark 1980)

ISOCRINIDA

Isocrinidae Gislén,1924

Diplocrinus Döderlein,1912

D. (Annacrinus A.H. Clark,1923) *wyvillethomsoni* (Jeffreys,18??)
= *Pentacrinus Wyville-Thomsoni* Jeffreys,18??
Biscay - Canaries & Morocco, in 1330-2002 m

COMATULIDA Clark,1908

Antedonoidea Norman,1865

Pentametrocrinidae A.H. Clark,19??

Pentametrocrinus A.H. Clark,1908

P. atlanticus (Perrier,1883)
= *Eudiocrinus atlanticus* Perrier,1883
off W Ireland - off Canaries - Caribbean area, in 607-215 m

Thaumatocrinus P.H. Carpenter,1883

T. jungerseni A.H. Clark,1923
Denmark Strait, in 823-2075 m

Antedonidae Norman,1865

Antedon de Freminville,1811 (TM *Antedon gorgonia* de Freminville,1811 - N. France)
(Direction 73 of ICZN)

A. bifida (Pennant,1777)
= *Asterias bifida* Pennant,1777
= *Antedon gorgonia* de Freminville,1811
= *Antedon maroccana* A.H. Clark,1910
=? *Antedon duebeni* Böhlsche,1866
Vestfold - Egersund, British North Sea coast, from Shetland S. to 55°, Biscay, W Iberia, Azores, Madeira, Canaries, SW Mediterranean, Senegal, ?West Indies?

A. mediterranea (de Lamarck,1816)
= *Comatula mediterranea* de Lamarck,1816
= *Comatula annulata* Risso,1826
= *Antedon adriatica* A.H. Clark,1911
Mediterranean

A. petasus (Düben & Koren,1846)
= *Alecto petasus* Düben & Koren,1846
Kattegatt-Bohuslän, Norway N. to 64°, Faeroes, S Iceland

Eudiocrinus H. Carpenter,1882
= *Ophiocrinus* Semper,1868, non Salter,1856, nec Charlesworth,1865
* Distributed in Biscay according to *Traité de Zoologie*, but probably referring to *Pentametrocrinus atlanticus* (Perrier).

Hathrometra A.H. Clark,1908 (TM *Alectro* (sic!) *dentata* Say,1825 - NE America)

H. sarsii (Düben & Koren,1846)

= *H. tenella* (Carpenter,1888) non (Retzius,1783)

= *Antedon tenella* Carpenter non (Retzius)

Bohuslän, Norway N to 70 (Oksfjord), Shetlands, between Scotland & Faeroes, Faeroes, all but NE Iceland, around S & W Greenland, NE USA, in 28-1783 m

Heliometra A.H. Clark,1907 (TM *Alecto Eschrichtii* J. Müller,1841 - Greenland)

H. glacialis (Owen,1833 ex Leach MS)

= *Alecto glacialis* Owen,1833 ex Leach MS

= *Alecto eschrichtii* J. Müller,1841

= *Antedon quadrata* P.H. Carpenter,1884

Norway S. to 70° & slope to 62°, all arctic Russia, Spitsbergen, around Greenland, Iceland, Faeroes, in 18-1358 m

Leptometra A.H. Clark,1908 (TM *Alecto phalangium* J. Müller,1841 - Mediterranean)

L. celtica (M'Andrew & Barrett,1858)

= *Comatula celtica* M'Andrew & Barrett,1858

= *Comatula Woodwardi* Barrett,1857, non Forbes,1852

= *L. phalangium* (Carpenter,1881) non (J. Müller,1841)

N. coast of Scotland, N. North Sea, W Ireland, W Iberia, W Mediterranean, S Canaries, below 50 m

L. phalangium (J. Müller,1841)

= *Alecto phalangium* J. Müller,1841

Mediterranean, below 70 m

Meteororometra A.M.Clark,1980

M. monticola A.M.Clark,1980

Great Meteor Bank, 292 - 620 m

Orthometra A.H. Clark,1917

O. hibernica (A.H. Clark,1913)

= *Trichometra hibernica* A.H. Clark,1913 (TM - off Ireland)

off W Ireland, off Entrance area to the Engl. Channel, in 698-753 m

Poliometra A.H. Clark,1923 (TM *Antedon prolixa* Sladen - NW. Greenland)

P. prolixa (Sladen,1881)

= *Antedon prolixa* Sladen,1881

= *Hathrometra prolixa* (Sladen)

off Norway (Slope 61-62°), along and N of Wyville Thomsom Ridge, all but S Iceland, E, S & W Greenland, Barents Sea, Spitsbergen, Kara Sea, Laptev Sea - Taimyr Peninsula

Trichometra A.H. Clark,1908 (TM *Trichometra aspera* A.H. Clark,1908 - ?)

T. cubensis (Pourtalès,1869)

= *Antedon cubensis* Pourtalès,1869

= *Trichometra aspera* A.H. Clark,1908

off W Faeroes, off S Iceland, Davis Strait, NE USA, off Cuba, in 223-2193 m

T. delicata A.H. Clark,1911

* Probably conspecific with *T. cubensis* (Pourtalès) according to A.M. Clark 1970
off SW Iceland, Biscay, off Portugal, in 700-2075 m

Thaumatometra A.H. Clark, 1908

T. septentrionalis A.H. Clark, 1923
off SW Iceland, Davis Strait, in 2075-2623 m

Paracomatuloidea Hess, 1953

* One recent family

Atelecrinidae Bather, 1899

Atelecrinus P.H. Carpenter, 1881 (TM *Atelecrinus balanoides* P.H. Carpenter, 1881 -
Lesser Antilles)

A. balanoides P.H. Carpenter, 1881
= *Atelecrinus helgae* A.H. Clark, 1913
off SW Faeroes, off W Ireland

Comasteroidea Clark, 1908

Comasteridae Clark, 1908

Neocomatella A.H. Clark, 1909

N. europaea A.H. Clark, 19??
off Bretagne - S of the Canaries, in 400-1710 m

Mariametroidea Clark, 1909

* Recent species Indo-Pacific, except one Caribbean genus.

Tropiometroidea Clark, 1908

Thalassometridae

Koehlermetra A.H. Clark, 1950
= *Crotalometra* : A.M. Clark, 1980, non A.H. Clark, 1909

K. flava (Koehler, 1???)
= *Antedon flava* Koehler, 1???
Biscay - S of the Canaries, in 753-1410 m

K. porrecta (P.H. Carpenter, 18??)
= *Antedon porrecta* P.H. Carpenter, 18??
Biscay - Ascension area, in 768-1480 m

Thalassometra A.H. Clark, 1907

T. lusitanica (P.H. Carpenter, 1884) A.M. Clark, 1980
= *Antedon lusitanica* P.H. Carpenter, 1884
= *Stiremetra lusitanica* (P.H. Carpenter, 1884)
Portugal, Madeira, Canaries, off Morocco, in 914-2165 m

T. omissa (Koehler, 1???)
= *Antedon omissa* Koehler, 1???
off SE Canaries, in 1330-1340 m

Tropiometridae

* One recent genus, *Tropiometra* Clark,1907, not represented in European Atlantic

Notocrinoidea Mortensen,1918

* No species in European Seas.

INADUNATA

† Extinct

FLEXIBILIA

† Extinct. Disappeared before Permian.

CAMERATA

† Extinct. Disappeared before Permian.

CYSTOIDEA

† Extinct

EOCRINOIDEA Jækel,1918 † Extinct

PARACRINOIDEA † Extinct

PARABLASTOIDEA † Extinct

BLASTOIDEA † Extinct

ELEUTHEROZOA

ASTEROZOA

SOMASTEROIDEA

* No Atlantic species.

ASTEROIDEA de Blainville,1830

PAXILLOSIDA Perrier,1884

Astropectinidae Gray,1840

Astropecten Gray,1840 (™ *Asterias aranciaca* Linnaeus,1758 - Mediterranean)

= *Stellaria* Nardo,1834

= *Crenaster* d'Orbigny,1850

A. aranciacus (Linnaeus,1758)

[= *Stella marina maior* Besler,1616]

[= *Stella pectinata secunda* Aldrovandi,1602]

[= *Crenaster* Luidius,1703]

[= *Astropecten echinatus maior* Linck,1733]

[= *Astropecten stellatus* Linck,1733]

= *Asterias aranciaca* Linnaeus,1758

= *Asterias aurantiaca* Tiedemann,1816

= *Astropecten crenaster* Dujardin & Hupé,1862

= *Astropecten perarmatus* Perrier,1869

= *Astropecten meridionalis* Studer,1876

= *Astropecten antarcticus* Studer,1876

= *Astropecten gruveli* Koehler,1912

Spain, Portugal, Mediterranean - Angola & Sierra Leone, Canaries

A. bispinosus (Otto,1823)
= *Asterias bispinosa* Otto,1823
= *Astropecten myosurus* Perrier,1869
Mediterranean

A. hermatophilus Sladen,1883
Azores, W Africa

A. ibericus Perrier,1894
S Spain - Gulf of Guinea

A. irregularis irregularis (Pennant,1777)
= *Asterias irregularis* Pennant,1777
[= *Astropecten irregularis* Linck,1733]
= *Astropecten muelleri* J. Müller & Troschel,1844
= *Astropecten echinulatus* J. Müller & Troschel,1844
= *Astropecten acicularis* Norman,1865
= *Astropecten helgolandicus* Greeff,1871
Öresund & Belt Sea-Kattegatt-Bohuslän, Norway north to W Finnmark, Rockall Bank
& Britain - Morocco, Cape Verde

A. irregularis pentacanthus (Delle Chiaje,1827)
= *Asterias pentacantha* Delle Chiaje,1827
Mediterranean

A. jonstoni (Delle Chiaje,1827)
= *Asterias jonstoni* Delle Chiaje,1827
= *Astropecten squamatus* J. Müller & Troschel,1844
= *Astropecten aster* De Filippi,1859
Mediterranean, in 2-12 m

A. platyacanthus (Philippi,1837)
= *Asterias platyacantha* Philippi,1837
Mediterranean, in 2-64 m

A. spinulosus (Philippi,1837)
= *Asterias spinulosa* Philippi,1837
Mediterranean, in 3-55 m

Bathybiaster Danielssen & Koren,1883 (™*Astropecten pallidus* Danielssen &
Koren,1877 - Norw. Sea)
= *Ilyaster* Danielssen & Koren,1884
= *Phoxaster* Sladen,1885

B. vexillifer (W. Thomson,1873)
= *Archaster vexillifer* W. Thomson,1873
= *Astropecten pallidus* Danielssen & Koren,1877
= *Archaster robustus* Verrill,1884
= *Ilyaster mirabilis* Danielssen & Koren,1884
= *Phoxaster pumilus* Sladen,1889
Norwegian Sea basin, N Barents Sea, Kara Sea, Laptev Sea, Circumpolar boreal below
225 m south to Biscay in the eastern N Atlantic

Dytaster Sladen,1885 (™*Archaster grandis* Verrill,1884 - W South Atlantic)
= *Crenaster* Perrier,1885, non d'Orbigny,1850

D. grandis grandis (Verrill,1884)

= *Archaster grandis* Verrill,1884
= *Dytaster exilis* var. *carinata* Sladen,1889
= *Dytaster biserialis* Sladen,1889
= *Dytaster madreporifer* Sladen,1889
= *Dytaster agassizi* Perrier,1894
= *Dytaster rigidus* Perrier,1894
Biscay, Azores, SW Africa, E USA, Gulf of Mexico

D. intermedius Perrier,1891
Azores, in 2870 m

D. mollis (Perrier,1885)
= *Crenaster mollis* Perrier,1885
Azores, below 2560 m

D. semispinosus (Perrier,1894)
= *Crenaster semispinosus* Perrier,1894
= *Dytaster parvulus* Koehler,1909
Biscay, Azores, below 4200 m

Leptychaster E.A. Smith,1876 (TM *Leptychaster kerguelensis* E.A. Smith,1876 - S. Indian Ocean)
= *Leptoptychaster* E.A. Smith,1879

L. arcticus (M. Sars,1851)
= *Astropecten arcticus* M. Sars,1851
= *Astropecten lutkeni* Barrett,1857
Norway S. to Sognefjord area, Barents Sea - Faeroe Channel - Labrador, Kola Bay, Murmansk, circumboreal, below 70 m

Lonchotaster Sladen,1889
= *Lonchotaster* Sladen,1885 (nom. nud.)

L. tartareus Sladen,1889
between Canaries & Cape Verde, in 4390 m

Persephonaster Wood-Mason & Alcock,1891 (TM *Persephonaster croceus* Wood-Mason & Alcock,1891 - ?Indian Ocean)
= *Psilasteropsis* Fisher,1906

P. leptactis H.L. Clark,1941
off Sahara (25.5° N, 16.5° W) - N & NE of Cuba, below 2450 m

P. patagiatus (Sladen,1889)
= *Psilaster patagiatus* Sladen,1889
= *Persephonaster spinulosus* H.L. Clark,1941
off SW Iceland, Rockall Trough, Porcupine Seabight in deep water,soth to NW Africa, Azores, Gulf of Mexico

P. sphenoplax (Bell,1892)
= *Astropecten sphenoplax* Bell,1892
= *Psilasteropsis humilis* Koehler,1907
off NW Ireland in ?914 m, N Biscay, Azores

Plutonaster Sladen,1885 (TM *Archaster bifrons* Wyville Thomson,1873 - North Atlantic)

P. agassizi (Verrill,1880) ***notatus*** Sladen,1889

= *Plutonaster notatus* Sladen, 1889
=? *Goniopecten edwardsi* Perrier, in Milne-Edwards, 1882
=? *Goniopecten inermis* Perrier, 1885 (nomen nudum)
= *Plutonaster abbreviatus* Sladen, 1889
= *Plutonaster granulosus* Perrier, 1891
far off SW Ireland, Biscay, Azores, Canaries, Madeira

P. bifrons (Wyville Thomson, 1873)
= *Archaster bifrons* Wyville Thomson, 1873
= *Plutonaster proteus* H.L. Clark, 1923
Faeroe Channel in 1000 m, off SW Ireland, Canaries - S Africa

Psilaster Sladen, 1885 (™ *Astropecten andromeda* J. Müller & Troschel - Kattegat)
= *Ripaster* Koehler, 1906
= *Phidiaster* Koehler, 1909

P. andromeda andromeda (J. Müller & Troschel, 1842)
= *Astropecten andromeda* J. Müller & Troschel, 1842
= *Astropecten cristii* Düben & Koren, in Düben, 1845
Kattegatt-Bohuslän, whole coast of Norway, Murmansk area, Faeroe Channel - Biscay,
below 70 m

P. cassiope Sladen, 1889
=? *Archaster pulcher* Perrier, 1881
= *Psilaster andromeda* var. *cassiope* : Grieg, 1907
= *Psilaster squameus* H.L. Clark, 1941
Cape Verde, Caribbean

Tethyaster Sladen, 1889 (™ *Asterias subinermis* Philippi, 1837 - Sicily)
= *Moiraster* Sladen, 1889
= *Sideriaster* Verrill, 1899

T. subinermis (Philippi, 1837)
= *Asterias subinermis* Philippi, 1837
Biscay - Angola, most of the Mediterranean

Luidiidae Sladen, 1889

Luidia Forbes, 1839 (™ *Luidia fragilissima* Forbes, 1839 - the Irish Sea)
(Opinion 129 of ICZN)
= *Hemicnemis* Müller & Troschel, 1840 (™ *Asterias ciliaris* Philippi, 1837)
= *Petalaster* Gray, 1840 (™ *P. hardwicki* Gray, 1840)
= *Astellia* Perrier, in Milne-Edwards, 1882 (™ *A. simplex* Perrier, 1882)

L. atlantidea Madsen, 1950
Atlantic Morocco - Zaire, including Cape Verde

L. ciliaris (Philippi, 1837)
= *Luidia fragilissima* Forbes, 1839 (Cf. opinion 129 of ICZN)
= *Asterias imperati* Delle Chiaje, 1841
Bohuslän (outer archipelago), Norway N. to 62.5°, Shetlands Faeroe Channel, Britain,
Canaries, Azores, Mediterranean

L. sarsii sarsii Düben & Koren, in Düben, 1845
= *Astellia simplex* Perrier, in Milne-Edwards, 1882
= *Luidia africana* Sladen, 1889
Öresund-Kattegatt-Bohuslän, Norway N. to 64° (Trondheimsfjord), Faeroe Bank,
Britain - Mauretania, Azores, Mediterranean

Goniopectinidae Verrill,1899

* No European species.

Ctenodiscidae Sladen,1889

Ctenodiscus J. Müller & Troschel,1842 (TM *Asterias polaris* Sabine,1824 - Arctic Canada)

= *Anodiscus* Perrier,1869, ex Valenciennes MS

C. crispatus (Retzius,1805)

= *Asterias crispata* Retzius,1805

= *Asterias polaris* Sabine,1824

= *Asterias arancia* Dewhurst,1834

= *Ctenodiscus pygmaeus* J. Müller & Troschel,1842

= *Ctenodiscus corniculatus* Perrier,1875

Norway S. to 62.5° (Sogn area), cold area of the Faeroe Channel, Spitsbergen, Barents Sea, Kola Bay, Kara Sea, Laptev Sea, Arctic-boreal, south to Cape Cod, below 10 m

Radiasteridae Fisher,1916

Radiaster Perrier,1881 (TM *Radiaster elegans* Perrier,1881 - West Indies)

= *Mimaster* Sladen,1882

R. tizardi (Sladen,1882)

= *Mimaster tizardi* Sladen,1882

Faeroe Channel, Hebridean Slope, Rockall Trough, off SW Ireland - off Sahara (24° N, 17° W)

Porcellanasteridae Sladen,1883

= Lethmasteridae Belyaev,1969

* No species in European Seas above abyssal depths.

Caulaster Perrier,1882

= *Albatrossia* Ludwig,1907

* *Caulaster* was reestablished by Belyaev G.M. and A.N. Mironov,1996.

C. eremicus (Sladen,1889)

= *Porcellanaster eremicus* Sladen,1889

= *Albatrossaster richardi* Koehler,1909

Cape Basin, Cape Verde Basin, southern Pacific, Antarctica, in 4116 - 6035 m (Belyaev G.M. & A.N. Mironov 1996)

C. pedunculatus Perrier,1882

From Davis Strait & Reykjanes Ridge to Biscay, in 1520 - 2951 m (Belyaev G.M. & A.N. Mironov 1996)

Hyphalaster Sladen,1883 (TM *H. hyalinus* Sladen,1883 - mid-Pacific)

H. inermis Sladen,1883

= *Hyphalaster parfai* Perrier,1885

= *Hyphalaster antonii* Perrier,1885

= *Hyphalaster fortis* Koehler,1907

= *Hyphalaster gracilis* Koehler,1907

Rockall Trough, Porcupine Seabight, below 2280 m

Porcellanaster Wyville Thomson,1877 (TM *P. ceruleus* Wyville Thomson,1877 - off Delaware)

= *Albatrossaster* Ludwig,1907

P. ceruleus Wyville Thomson,1877

= *Caulaster sladeni* Perrier,1885

= *Porcellanaster inermis* Perrier,1885

= *Porcellanaster granulosus* Perrier,1885

= *Albatrossia semimarginalis* Ludwig,1905

= *Porcellanaster irregularis* Lieberkind,1932

N Atlantic, i.a. Rockall Trough, below 1600 m

Styracaster Sladen,1883 (™ *S. horridus* Sladen,1883 - off Ascension)

= *Machairaster* Perrier,1884

= *Chunaster* Ludwig,1907

S. armatus Sladen,1883

= *Machairaster pictus* Perrier,1884

= *Styracaster spinosus* Perrier,1885

= *Styracaster edwardsi* Perrier,1885

off SW Ireland - Iberian & Canary Basin - off SE Azores, below 2995 m

S. chuni Ludwig,1907

midway between S Greenland & SW Ireland, Porcupine Seabight, Biscay, , below 2500 m

S. elongatus Koehler,1907

Biscay - Angola Basin, off Azores, below 3310 m

S. horridus Sladen,1883

= *Chunaster scapanephorus* Ludwig,1907

Biscay - Angola Basin, below 4040 m

Thoracaster Sladen,1883 (™ *T. cylindratus* Sladen,1883 - between Canaries & Cape Verde)

= *Pseudaster* Perrier,1885

T. cylindratus Sladen,1883

= *Pseudaster cordifer* Perrier,1885

= *Thoracaster magnus* Ludwig,1907

Porcupine Seabight, Azores, between Canaries & Cape Verde, below 2500 m

NOTOMYOTIDA Ludwig,1910

Benthopectinidae Verrill 1894

Benthopecten Verrill,1884 (™ *Benthopecten spinosus* Verrill,1884 - off Atlantic USA)

= *Pararchaster* Sladen,1885

B. simplex simplex (Perrier,1881)

= *Archaster simplex* Perrier,1881

= *Pararchaster armatus* Sladen,1889

= *Benthopecten spinosus* Grieg,1918 (p.p.), non Verrill,1884

off S & SW Iceland, Rockall Trough, south to Gulf of Guinea, below 1175 m

B. spinosissimus (Sladen,1889)

= *Pararchaster spinosissimus* Sladen,1889

off S & SW Iceland, off Ascension, below 780 m

Cheiraster Studer,1883 (™ *Cheiraster gazellae* Studer,1883 - non-Atlantic)

C. (C.) sepitus (Verrill,1885)

= *Archaster sepitus* Verrill,1885

= *Pontaster venustus* Sladen,1889

= *Pontaster perplexus* Perrier,1894

= *Pectinaster echinulatus* Ludwig,1910 (p.p.)

= *Pectinaster dispar* Verrill,1915

= *Luidiaster dubius* H.L. Clark,1941

off W Iceland, Rockall Trough, Biscay, Portugal - Cape Verde area, Azores, below 1000 m

Pectinaster Perrier,1885 (™ *Pectinaster filholi* Perrier,1885 - Atlantic)

P. filholi Perrier,1885

= *Pontaster forcipatus* Sladen,1889

= *Pontaster pristinus* Sladen,1889

off S Iceland, Rockall Trough, Biscay, Azores, NW Africa, below 1260 m

Pontaster Sladen,1885 (™ *Astropecten tenuispinus* Düben & Koren - W Norway)

P. tenuispinus (Düben & Koren,1846)

= *Astropecten tenuispinus* Düben & Koren,1846

= *Crenaster marionis* Perrier,1885

= *Pontaster hebitus* Sladen,1889

= *Pontaster limbatus* Sladen,1889

* Often divided into a 'warm-water' and a 'cold-water' form. If the latter is given a name, it should probably be: *P. platynota* Sladen,1889

Bohuslän, W Skagerrak, Norway S. to 58°, Spitsbergen, N Brents Sea, Franz Josef Land, Kara Sea, Laptev Sea, Davis Strait, Faeroe Channel, off W Ireland, Biscay, circum-Arctic, in 18-1960 m

VALVATIDA Perrier,1884

Chaetasteridae Sladen,1889

* No species N of Ireland

Chaetaster J. Müller & Troschel,1840 (™ *Asterias subulata* de Lamarck,1816 - ?Mediterranean)

C. longipes (Retzius,1805)

= *Asterias longipes* Retzius,1805

= *Asterias subulata* de Lamarck,1816

= *Nepanthia tessellata* Gray,1840

Biscay, Azores, Mediterranean, south to Cape Verde & Liberia, below 30 m

Odontasteridae Verrill,1899

Hoplaster Perrier, in Milne-Edwards,1882 (™ *H. spinosus* Perrier, in Milne-Edwards,1882 - Biscay)

H. spinosus Perrier, in Milne-Edwards,1882

= *Pentagonaster lepidus* Sladen,1889

Rockall Trough, Porcupine Seabight, Biscay, off Morocco, below 1795 m

Odontaster Verrill,1880 (™ *O. hispidus* Verrill,1880 - off Rhode Island)

= *Gnathaster* Sladen,1889

= *Asterodon* Perrier,1891

= *Gnathodon* Verrill,1899
= *Peridontaster* Koehler,1920
= *Epidontaster* Koehler,1920
= *Gymnognathaster* Döderlein,1927

G. mediterraneus (von Marenzeller,1893)
= *Gnathaster mediterraneus* von Marenzeller,1893
?Porcupine Seabight?, ?Biscay?, Mediterranean, below 414 m

Ganeriidae Sladen,1889
* No European species.

Goniasteridae Forbes,1841

Ceramaster Verrill,1899 (™ *Asterias granularis* Retzius,1783 - Canada?)
= *Philonaster* Koehler,1909

C. granularis granularis (Retzius,1783)
= *Asterias granularis* Retzius,1783
= *Asterias tessellatus* de Lamarck,1816
= *Astrogonium boreale* Barrett,1857
= *Pentagonaster eximius* Verrill,1894
= *Pentagonaster simplex* Verrill,1895
Bohuslän, whole Norwegian coast, Murmansk, Faeroes, off Hebrides, Iceland, S
Greenland, Newfoundland, below 40 m

C. grenadensis grenadensis (Perrier,1881)
= *Pentagonaster grenadensis* Perrier,1881
= *Pentagonaster affinis* Perrier,1884
= *Pentagonaster gosselini* Perrier,1884
= *Pentagonaster haesitans* Perrier,1885
= *Pentagonaster deplasi* Perrier,1885
= *Pentagonaster crassus* Perrier,1885
= *Astrogonium greeni* Bell,1889
= *Pentagonaster balteatus* Sladen,1891
= *Pentagonaster hystericis* von Marenzeller,1893
= *Pentagonaster kergroheni* Koehler,1895
SW Ireland - Gulf of Guinea, Mediterranean, below 200 m

Evoplosoma Fisher,1906 (™ *E. forcipifera* Fisher,1906 - Hawaii)

E. scorpio Downey,1981
SW Rockall Trough, off S Ireland, W Approaches to the Engl. Channel, below 1600 m

Goniaster L. Agassiz,1836
= *Phaneraster* Perrier,1894

G. tessellatus (de Lamarck,1816)
= *Asterias tessellata* de Lamarck,1816
[= *Pentagonaster semilunatus* Linck,1733]
= *Asterias granularis* Gmelin,1791 (p.p.)
= *Goniaster sebae* Gray,1840
= *Goniaster cuspidatus* Gray,1840
= *Astrogonium dubium* Perrier,1869
= *Goniaster americanus* Verrill,1871
= *Goniaster africanus* Verrill,1871
Morocco - Gabon, North Carolina - N Brazil, Cape Verde, in 22-43 m

Hippasteria Gray,1840 (™ *Asterias phrygiana* Parelius,1768 - Norway)

H. phrygiana phrygiana (Parelius,1768)

= *Asterias phrygianus* Parelius,1768

[= *Pentaceros planus* Linck,1733]

= *Asterias equestris* : de Lamarck,1816, non Retzius,1805

= *Asterias johnstoni* Gray, in Johnston,1836

= *Hippasteria europaea* Gray,1840

= *Hippasteria cornuta* Gray,1840

= *Hippasteria plana* Gray,1840

= *Goniaster abbensis* Gray,1843

= *Astrogonium aculeatum* Barrett,1857

= *Hippasteria (Nehippasteria) insignis* Dons,1938

Kattegatt-Bohuslän, whole Norwegian coast, SW Barents Sea, Kola Bay, N Scotland & N Ireland - boreal Arctic, in 20-850 m

H. insignis Dons,1937

Trondheimsfjord

Mediaster Stimpson,1857 (™ *M. aequalis* Stimpson,1857 - ?)

M. bairdi bairdi (Verrill,1882)

= *Archaster bairdi* Verrill,1882

= *Mediaster stellatus* Perrier,1891

Rockall Trough, Newfoundland - New Jersey, below 642 m

Nymphaster Sladen,1885 (™ *N. protentus* Sladen,1889 - ?)

= *Dorigona* Perrier,1885, non Gray,1866

N. arenatus (Perrier,1881)

= *Pentagonaster arenatus* Perrier,1881

= *Pentagonaster ternalis* Perrier,1881

= *Pentagonaster subspinosus* Perrier,1881

= *Dorigona prehensilis* Perrier,1885

= *Nymphaster basilicus* Sladen,1889

= *Nymphaster protentus* Sladen,1889

= *Nymphaster albidus* Sladen,1889

= *Dorigona jacqueti* Perrier,1894

off W Ireland - Morocco, Canaries, Cape Verde, off Georgia & Gulf of Mexico - S Brazil, below 225 m

Paragonaster Sladen,1885 (™ *P. ctenipes* Sladen,1889 - ?)

P. subtilis (Perrier,1881)

= *Goniopecten subtilis* Perrier,1881

= *Archaster formosus* Verrill,1884

= *Pentagonaster elongatus* Perrier,1885

= *Paragonaster cylindratus* Sladen,1889

= *Paragonaster strictus* Perrier,1894

Rockall Trough - Gulf of Guinea, Azores, E of New York - Norfolk (Virginia), below 1845 m

Peltaster Verrill,1899 (™ *Peltaster hebes* Verrill,1899 - West Indies)

P. placenta (J. Müller & Troschel,1842)

= *Goniodiscus placenta* J. Müller & Troschel,1842

= *Goniodiscus placentaeformis* Heller,1863

= *Goniodiscus acutus* Heller,1863

- = *Pentagonaster mirabilis* Perrier, 1875
- = *Goniaster nidarosiensis* Storm, 1881
- = *Pentagonaster vincenti* Perrier, 1885
- = *Pentagonaster minor* Koehler, 1895
- = *Pentagonaster planus* Verrill, 1895
- = *Peltaster hebes* Verrill, 1899

Hardangerfjord, Sognefjord, Trondheimsfjord, Nord-Trøndelag, Iceland & Trøndelag S. to the equator, Mediterranean, Cape Cod area - Caribbean, below 10 m

- Plinthaster*** Verrill, 1899 (TM *Pentagonaster perrieri* Sladen, 1889 - ?)
- = *Pyrenaster* Verrill, 1899
- = *Eugoniaster* Verrill, 1899

P. dentatus (Perrier, 1884)

- = *Pentagonaster dentatus* Perrier, 1884
- = *Pentagonaster grandis* Perrier, 1885
- = *Pentagonaster perrieri* Sladen, 1889
- = *Pentagonaster concinnus* Sladen, 1891
- = *Tosia (Plinthaster) compta* Verrill, 1899
- = *Tosia (Plinthaster) nitida* Verrill, 1899

Rockall Trough - Gulf of Guinae, Azores, Canaries, Cape Verde, North Carolina & Gulf of Mexico - N Brazil, below 229 m

- Pseudarchaster*** Sladen, 1889 (TM *Pseudarchaster discus* Sladen, 1889 - S. Chile)
- = *Aphroditaster* Sladen, 1889
- = *Astrogonium* Perrier, 1894 (p.p.)

P. gracilis gracilis (Sladen, 1889)

- = *Aphroditaster gracilis* Sladen, 1889
- = *Pseudarchaster concinnus* Verrill, 1894
- = *Astrogonium aphrodite* Perrier, 1894
- = *Astrogonium necator* Perrier, 1894
- = *Pseudarchaster ordinatus* Verrill, 1899
- = *Pseudarchaster granuliferus* Verrill, 1899
- = *Astrogonium eminens* Koehler, 1907
- = *Astrogonium aequabile* Koehler, 1907
- = *Astrogonium marginatum* Koehler, 1909

Rockall Trough - equator, Cape Cod - equator, Azores, below 320 m

P. parelii (Düben & Koren, 1846)

- = *Astropecten parelii* Düben & Koren, 1846
- = *Astrogonium fallax* Perrier, 1885
- = *Pseudarchaster intermedius* Sladen, 1889
- = *Astrogonium annectens* Perrier, 1894
- = *Astrogonium hystrix* Perrier, 1894
- = *Pseudarchaster intermedius* var. *insignis* Verrill, 1895
- = *Pseudarchaster tessellatus* var. *arcticus* Sluiter, 1895
- = *Astrogonium longobrachiale* Koehler, 1907

Bohuslän, whole Norwegian coast, S Greenland, Rockall Trough - Biscay, Newfoundland - Florida, below 75 m

- Sphaeriodiscus*** Fisher, 1910 (TM *Stephanaster bourgeti* Perrier, 1885 - Cape Verde)

S. bourgeti (Perrier, 1885)

- = *Stephanaster bourgeti* Perrier, 1885
- NW Africa, Cape Verde, Natal, below 405 m

Ophidiasteridae Verrill, 1870

Hazelia Gray,1840 (™ *Ophidiaster (Hazelia) attenuatus* Gray,1840 - ?)

H. attenuata Gray,1840

= *Ophidiaster (Hazelia) attenuatus* Gray,1840

= *Asterias laevigata varietas* de Lamarck,1816, non *A. laevigata* Linnaeus,1758

= *Asterias variolata* Risso,1826, non Retzius,1805

= *Asterias coriacea* Grube,1840

= *Ophidiaster lessonae* Gasco,1876

Azores, Cape Verde, Mediterranean, Guinea, in 1-150 m

Narcissia Gray,1840 (™ *N. teneriffae* Gray,1840 - Canaries)

N. canariensis (d'Orbigny,1839)

= *Asterias canariensis* d'Orbigny,1839

= *Narcissia teneriffae* Gray,1840

= *Fromia narcissae* Perrier,1885

= *Fromia narcissiae* Perrier,1894

Canaries & Cape Verde - Congo, below 37 m

N. trigonaria Sladen,1889

* mentioned from St Helena as the only E Atlantic locality by Clark & Downey 1992

E North Atlantic (according to van der Land's list), W Atlantic, in 37-91 m

Ophidiaster L. Agassiz,1836 (™ *Asterias ophidiana* de Lamarck,1816 - ?Mediterranean)

= *Chione* Gistel,1848

= *Drachmaster* Downey,1970

O. ophidianus (de Lamarck,1816)

= *Asterias ophidiana* de Lamarck,1816

= *Ophidiaster aurantius* Gray,1840

= *Ophidiaster canariensis* Greeff,1872

Azores, Madeira, Canaries, W Mediterranean - Gulf of Guinea, in 0-105 m

O. reyssi Sibuet,1977

Azores, off Sicily, in 128-350 m

Mithrodiidae Viguiet,1878

* Not in European Seas.

Asteropseidae Hotchkiss & A.M. Clark,1976

* Not in European Seas.

Oreasteridae Fisher,1911

* Not in European Seas.

Poraniidae Perrier,1893

Chondraster Verrill,1895 (™ *Porania grandis* Verrill,1878 - Cape Cod)

C. grandis (Verrill,1878)

= *Porania grandis* Verrill,1878

=? *Marginaster fimbriatus* Sladen,1889

off SW Faeroes, Wyville Thomson Ridge, Lousy Bank, south to southern Biscay, below 300 m

Marginaster Perrier,1881 (™ *M. pectinatus* Perrier,1881 - off W Cuba)

= *Cheilaster* Bell,1893
= *Poranisca* Verrill,1914

M. capreensis (Gasco,1876)
= *Asteropsis capreensis* Gasco,1876
off NW Ireland, Irish Sea, Mediterranean, in 50-2487 m

Porania Gray,1840 (TM *Porania gibbosa* Gray,1840 - Britain)
= *Asteropsis* J. Müller & Troschel,1842 (p.p.)
= *Glabraster* A.H. Clark,1916
= *Pseudoporania* Dons,1936

P. (Porania) pulvillus pulvillus (O.F. Müller,1776)
= *Goniaster templetoni* Thomson, in Forbes,1839
= *P. gibbosa* Gray,1840 (nomen nudum)
= *Asteropsis ctenacantha* J. Müller & Troschel,1842
Bohuslän, Norway N. to southern Troms, Shetlands, off SW Faeroes, Britain - Biscay & N Spain, below 5 m

Subg.: ***Pseudoporania*** Dons,1936 (TM *Pseudoporania stormi* Dons,1936 - Trondheimsfjord)

P. (Pseudoporania) stormi (Dons,1935)
= *Pseudoporania stormi* Dons
Bohuslän*, Norway at Bergen*, Trondheimsfjord & S Troms, off SW Faeroes, off S Iceland, E Wyville Thomson Ridge, NE Porcupine Seabight, below 200 m (*H.G. Hansson 1996)

Poraniomorpha Danielssen & Koren,1881 (TM *Poraniomorpha rosea* Danielssen & Koren - N. North Sea)
= *Rhegaster* Sladen,1883
= *Lasiaster* Sladen,1889
= *Culcitopsis* Verrill,1914
= *Sphaeraster* Dons,1938, non Quenstedt,1875
= *Sphaeriaster* Dons,1939

P. (Poraniomorpha) bidens Mortensen,1932
cold Faeroe Channel, E Greenland, Greenland Sea, N Canada - Kara Sea, Arctic Seas, in 53-1200 m

P. (Poraniomorpha) hispida hispida (M. Sars,1872)
= *Goniaster hispidus* M. Sars,1872
= *Asterina borealis* Verrill,1878
= *Porania spinulosa* Verrill,1880
=? *Rhegaster murrayi* Sladen,1883
Bohuslän, whole coast of Norway, Barents Sea, - Arctic - Cape Cod, below 90 m

P. (Poraniomorpha) hispida rosea Danielssen & Koren,1881
= *Poraniomorpha rosea* Danielssen & Koren,1881
= *Lasiaster villosus* Sladen,1889
off Norway from Cape Stadt area to deeper parts of Skagerrak (Mandal area), Wyville Thomson Ridge to Biscay, below 250 m

P. (Poraniomorpha) tumida (Stuxberg,1878)
= *Solaster tumida* Stuxberg,1878
= *Rhegaster tumidus* (Stuxberg): Auctt.
= *Sphaeriaster bjoerklykkei* (Dons,1938) (type locality: NE of Shetlands; Clark & Downey,1992)

East Finnmark, lower slope off Norway S. to 62° (Cape Stadt area), W Greenland, Denmark Strait, Jan Mayen, off Spitsbergen, Barents Sea, Kola Bay, White Sea, Kara Sea, Laptev Sea, N & E Iceland, extending S. to near the Faeroe Channel, else Arctic, in 9-1203 m

Subg.: *Culcitopsis* Verrill,1914 (TM *Culcita borealis* Süßbach & Breckner,1911 - Shetlands)

= *Sphaeraster* Dons,1938, non Quenstedt,1875

= *Sphaeriaster* Dons,1939

P. (Culcitopsis) borealis (Süßbach & Breckner,1911)

=? *Marginaster pentagonus* Perrier, in Milne-Edwards,1882

= *Culcita borealis* Süßbach & Breckner,1911

= *Sphaeraster berthae* Dons,1938

= *Sphaeriaster berthae* : Dons,1939

from South-Trøndelag and northwards along Norway, off SW Faeroes, E & SE end of Wyville Thomson Ridge, off NW Scotland - S Portugal, below 110 m

Tylaster Danielssen & Koren,1881 (TM *Tylaster willei* Danielssen & Koren - Norw. Sea)

T. willei Danielssen & Koren,1881

* Not mentioned in A.M. Clark & Downey 1992

Norwegian Sea basin, N Barents Sea, Kara Sea, below 520 (79 in Kara Sea) m

Sphaerasteridae Schöndorf,1906

Podosphaeraster A.M. Clark, in Clark & Wright,1962 (TM *P. polyplax* A.M. Clark, in Clark & Wright,1962)

P. thalassae Cherbonnier,1970

off NW Spain in 500-520 m

Asterinidae Gray,1840

Allopatiria Verrill,1913 (TM *Patiria ocellifera* Gray,1847 - ?)

A. ocellifera (Gray,1847)

= *Patiria ocellifera* Gray,1847

=? *Palmipes lobiancoi* Ludwig,1897

= *Patiria rosea* Koehler & Vaney,1906

= *Patiria pulla* Koehler & Vaney,1906

= *Parasterina africana* Engel & Croes,1960

W Mediterranean, ?Canaries?, W Sahara, Mauretania, below 6 m

Anseropoda Nardo,1834 (TM *Asterias placenta* Pennant,1777 - Dorset)

= *Palmipes* : Schultze,1760 [ex Linck,1733] (Rejected in opinion 636 of the ICZN)

= *Asteriscus* J. Müller & Troschel,1842 (p.p.)

= *Carna* Gistel,1848

A. lobiancoi (Ludwig,1897)

= *Palmipes lobiancoi* Ludwig,1897

* Should probably be removed from this genus. Clark & Downey 1992 suggests a possible synonymity with *Allopatiria ocellifera* (Gray,1847), or the possibility of it being a short-rayed *Asterina*.

Mediterranean

A. placenta (Pennant,1777)

= *Asterias placenta* Pennant,1777
[= *Palmipes membranaceus* Linck,1733]
= *Asterias membranacea* Retzius,1783
= *Asterias cartilaginea* Fleming,1828
= *Asteriscus palmipes* J. Müller & Troschel,1842
Faeroes, Shetlands, British North Sea coasts & N. North Sea, south to Sierra Leone,
Mediterranean, below 10 m

Asterina Nardo,1834 (TM *Asterina minuta* : Nardo,1834 - ?)
= *Asteriscus* J. Müller & Troschel,1840 (p.p.)
= *Patiria* Gray,1840 (p.p.)
= *Asterinides* Verrill,1913
= *Enoplopatiria* Verrill,1913

A. gibbosa (Pennant,1777)
= *Asterias gibbosa* Pennant,1777
[= *Pentaceros gibbus* et *plicatus* Linck,1733]
[= *Stella marina saxis infixata* Borlase,1758] (not binominal)
= *Asterias verruculata* Retzius,1805
= *Asterina minuta* : Nardo,1834, non *Asterias minuta* Linnaeus,1761
= *Asteriscus arrecifiensis* Greeff,1872
Ireland, Isle of Mull, S & W British Isles, Normandy - Canaries & Azores,
Mediterranean, below intertidal

A. pancerii (Gasco,1870)
= *Asteriscus pancerii* Gasco,1870
Mediterranean

A. phylactica Emson & Crump,1979
S Ireland, SW Britain, Banyuls, N Adriatic

A. wega Perrier,1???
* Immigrant from the Red Sea
E Mediterranean

Tremaster Verrill,1880 (TM *Tremaster mirabilis* Verrill,1880 - New England)

T. mirabilis Verrill,1880
= *Tremaster laevis* H.L. Clark,1941
Norway at 69°(southern Troms), SE Greenland, SE Iceland, Barents Sea, Labrador,
Nova Scotia - Cuba, Kerguelen

SPINULOSIDA Perrier,1884

Echinasteridae Verrill,1870

Echinaster J. Müller & Troschel,1840 (TM *Asterias seposita* Retzius,1783 - Mediterr.)
= *Othilia* Gray,1840
= *Rhopia* Gray,1840
= *Thyraster* Ives,1890
= *Verrillaster* Downey,1973

E. (Echinaster) sepositus sepositus (Retzius,1783)
= *Asterias seposita* Retzius,1783
= *Asterias sagena* Retzius,1805
= *Rhopia mediterranea* Gray,1840
N Brittany & Channel Islands south to Mauretania & Cape Verde, all Mediterranean, in
2-250 m

Henricia Gray,1840 (™ *Asterias oculata* Pennant,1777 - Irish Sea)
= *Linckia* Forbes,1839, non Nardo,1834
= *Cribella* Forbes,1841 non L. Agassiz,1837
= *Cribrella* Lütken,1857 non L. Agassiz,1836
= *Magdalenaster* Koehler,1907
= *Cyllaster* A.H. Clark,1916
= *Spinohenricia* Heding,1935

H. caudani (Koehler,1895)
= *Cribella caudani* Koehler,1895
Biscay, NW Africa, Canaries, below 650 m

H. cylindrella (Sladen,1883)
= *Cribrella oculata* var. *cylindrella* Sladen,1883
= *Cribrella abyssalis* Perrier,1894
= *Henricia abyssicola* Perrier,1885 & : Farran,1913 & : Mortensen,1927, non *Cribrella sanguinolenta* var. *abyssicola* Norman,1869
off Shetlands, N Rockall Trough, off W Hebrides, SW of Wyville Thomson Ridge,
Porcupine Seabight, Canaries, Morocco, Azores, below 530 m

H. eschrichti (J. Müller & Troschel,1842)
= *Echinaster eschrichti* J. Müller & Troschel,1842
= *Magdalenaster arcticus* Koehler,1907
East Finnmark, W & E Greenland, Iceland

H. hedingi Madsen,1987
Between Faeroes & Iceland, N Iceland, Denmark Strait, S Greenland, below 280 m

H. lisa A.H. Clark,1949
47°10'N, 36°00'W, in 4204 m

H. lisa A.H. Clark,1949 *ingolfi* Madsen,1987
East Finnmark, off Faeroes, Iceland, S & SW Greenland, below 100 m

H. oculata (Pennant,1777)
= *Asterias oculata* Pennant,1777
[= *Pentadactylosaster oculatus* Linck,1733]
= *H. sanguinolenta* : Auctt., non (O.F. Müller) (p.p.)
* possibly a synonym of *H. perforata* (O.F. Müller)
British North Sea coast, Shetlands, all Scotland & Ireland around Wales into the
western English Channel, Portugal, from the shore - 180 m

H. perforata (O.F. Müller,1776)
= *Asterias perforata* O.F. Müller,1776
= *H. sanguinolenta* : Auctt, non (O.F. Müller)
= *Cribrella oculata* var. *murina* Perrier,1875
= *Echinaster scrobiculatus* Danielssen & Koren,1883
= *Cribrella sanguinolenta* forma *scabrior* Michailovskij,1902
= *Henricia knipowitschi* D'yakonov,1950
= *Henricia sanguinolenta* : Rasmussen,1965 non (O.F. Müller)
= *Henricia crossispika* Heding, in Jägerskiöld,1971 (nomen nudum)
= *Henricia fisheri echinata* Heding, in Jägerskiöld,1971 (nomen nudum)
Öresund & Belt Sea-Kattegatt-Bohuslän, whole Norwegian coast, N North Sea,
Shetlands, E Scotland, Barents Sea, Kara Sea, Novaja Zembla, Spitsbergen, E & W
Greenland, E Canada, Iceland, Faeroes, in 2.5- 200 m

H. pertusa (O.F. Müller,1776)

= *Asterias pertusa* O.F. Müller,1776
= *Echinaster oculatus* forma *major* Düben & Koren,1846
= *Cribrella sanguinolenta* var. *abyssicola* Norman,1869
=? *Cribrella biscayensis* Koehler,1895
Bohuslän, Oslofjord, 58-70° (North Cape), N North Sea, Shetlands, Faeroes, Iceland,
Norwegian Sea, Faeroe Channel & Rockall Trough, ?Biscay, Davis Strait, below 100 m

H. sanguinolenta (O.F. Müller,1776)
= *Asterias sanguinolenta* O.F. Müller,1776
= *Echinaster sarsi* J. Müller & Troschel,1844
= *Echinaster oculatus* forma *minor* Düben & Koren,1846
= *Cribrella sanguinolenta* var. *curta* Norman,1869
= *Cribrella pectinata* Verrill,1894
= *Cribrella sanguinolenta* forma *laevior* Michailovskij,1902
= *Henricia sanguinolenta miliaris* Verrill,1914
= *H. perforata* : Rasmussen,1965 non (O.F. Müller)
Norway S. to 58° (Norwegian SW coast) but perhaps also the Norwegian Skagerrak
coast, N North Sea, Northumberland, Shetlands, Hebrides, Faeroes, Iceland,
Spitsbergen, Kola Peninsula, N Boreal/Arctic, in W Atlantic S to Cape Hatteras, Low
water - 150 m

H. skorikovi D'yakonov,1950
* related to *H eschrichti*, if not conspecific according to Madsen 1988
White Sea, adjacent Barents Sea & Chesha Bay, shallow water -130 m

H. solida D'yakonov,1950
* related to *H eschrichti*, if not conspecific according to Madsen 1988
W Barents Sea, Kola Bay, in 100-290 m

H. spongiosa (O. Fabricius,1780)
N & W Iceland, E & W Greenland, Spitsbergen, Murmansk, Kola Bay, NE Canada to
Newfoundland, below 10 m

VELATIDA Perrier,1893

Solasteridae Viguiet,1878

Crossaster J. Müller & Troschel,1840 (™ *Asterias papposa* Linnaeus - "in O.
Europaeo et Asiatico")
= *Solaster (Polyaster)* Gray,1840

C. papposus (Linnaeus,1767)
= *Asterias papposa* Linnaeus,1767
[= *Stella tredecim radiatum* Clusius,1605]
[= *Stella marina tredecim radiis* Besler,1616]
[= *Stella rubra coriacea 12-radiis* Luidius,1703]
[= *Triskaidecactis papposa* Linck,1733]
[= *Dodecactis reticulata* Linck,1733]
= *Asterias helianthemoides* Pennant,1777
= *Asterias affinis* Brandt,1835
Öresund & Belt Sea-Kattegatt-Bohuslän, whole Norwegian coast, Iceland, around
Britain, Netherlands, Belgium - N Bretagne, E Greenland, Barents Sea, Kola Bay,
White Sea, Kara Sea, circumboreal - also in N Pacific, in 0-909 m

C. squamatus (Döderlein,1900)
= *Solaster papposus* var. *squamata* Döderlein
= *Solaster affinis* Danielssen & Koren,1877 non (Brandt,1835)
= *Solaster squamatus* Döderlein

NW - NE Finnmark, Slope off Norway S. to 60°, Spitsbergen, Greenland, Faeroe Channel, Arctic, below 100 m

Lophaster Verrill, 1878 (TM *Solaster furcifer* Düben & Koren, 1846 - W. Norway)
= *Sarkaster* Ludwig, 1905

L. furcifer (Düben & Koren, 1846)
= *Solaster furcifer* Düben & Koren, 1846
Bohuslän*, Norway S to 59° (Lysefjorden) (apparently with a gap in the distribution from 64-72°), Spitsbergen, Greenland, Barents Sea, Kola Bay, Franz Josef Land, Kara Sea, Laptev Sea, Faeroe Channel, E North America south to 41°N, Bermudas, in 6-1100 m (H.G.Hansson 1996)

Solaster Forbes, 1839 (TM *Asterias endeca* Linnaeus - Norway)

S. earlli Verrill, 1879
Greenland, Newfoundland, Nova Scotia, off Cape Cod, below 219 m

S. endeca (Linnaeus, 1771)
= *Asterias endeca* Linnaeus, 1771
[= *Stella marina* Rumphius, 1705]
[= *Octactis dactyloides* Linck, 1833]
[= *Enneactis coriacea dentata* Linck, 1733]
= *Asterias rumphii* Parelius, 1768 (An older unused synonym, which ICZN should reject)
= *Asterias aspera* O.F. Müller, 1776
= *Asterias alboverrucosa* Brandt, 1835
= *Solaster endeca decemradiata* Sladen, 1889
= *Solaster intermedius* Sluiter, 1895
= *Solaster galaxides* Verrill, 1909
Öresund-Kattegat, Bohuslän, whole coast of Norway, Spitsbergen, Barents Sea, Kola Bay, White Sea, S Kara Sea, Britain, North America from 60°N to Cape Cod, in 0-549 m

S. glacialis Danielssen & Koren, 1881
= *S. echinatus* Storm, 1888
Trondheimsfjorden and northwards along Norway, Barents Sea between Finnmark and Spitsbergen, Kara Sea, Bear Island, E Greenland

S. syrtensis Verrill, 1894
E Greenland, Nova Scotia to Cape Cod, Barents Sea, Kara Sea, Bear Island, Arctic, below 82 m

Korethrasteridae Danielssen & Koren, 1884

Korethraster Wyville Thomson, 1873 (TM *Korethraster hispidus* Thomson, 1873 - North Atlantic)

K. hispidus Wyville Thomson, 1873
= *Korethraster setosus* Perrier, in Milne-Edwards, 1882
Slope 67-68.5° off Norway, off Spitsbergen, E Greenland, Bear Island, Franz Joseph Land, N Kara Sea, Faeroe Channel to Biscay, below 85 m

Caymanostellidae Belayaev, 1974

* Not in European Seas.

Pterasteridae Perrier, 1875

Diplopteraster Verrill,1880 (TM *Pteraster multipes* M. Sars,1866 - Drøbak, Norway)
= *Retaster* Sladen,1889 (p.p.)

D. multipes (M. Sars,1866)
= *Pteraster multipes* M. Sars,1866
Oslofjorden, Norway N. to 67° or N. to E Finnmark, SW Barents Sea, Porcupine Seabight & Rockall Trough, Chesapeake Bay, circumpolar Arctic, below 91 m

Hymenaster Thomson,1873 (TM *Hymenaster pellucidus* Thomson - Faeroe Channel)

H. giboryi Perrier,1894
Between Azores & Portugal, off NE Newfoundland, off Jamaica, below 2997 m

H. pellucidus Thomson,1873
= *Hymenaster membranaceus* Thomson,1877
= *Hymenaster giganteus* Sladen,1891
= *Hymenaster perissonotus* Fisher,1910
East Finnmark, Norwegian Sea basin, E Greenland, Greenland Sea, Spitsbergen, Barents Sea, Kara Sea, Laptev Sea, Faeroe Channel - south to Portugal, circumboreal, below 128 m

H. regalis Verrill,1895
= *Hymenaster kieri* Downey,1979
Rockall Trough, NE USA, W South Africa, below 1463 m

H. reticulatus Sibuet,1976
Biscay, Gulf of Cadiz, below 1894 m

H. rex Perrier,1885
= *Hymenaster gennaesus* H.L. Clark,1923
Rockall Trough, Biscay, off W Africa, off SW part of South Africa, below 1139 m

H. roseus Koehler,1907
* Validity doubtful
Azores, below 1846 m

H. tenuispinus Sibuet,1976
Biscay, below 2120 m

Pteraster J. Müller & Troschel,1842 (TM *Asterias militaris* O.F. Müller,1776 - Norway)
= *Marsipaster* Sladen,1882
= *Hexaster* Perrier,1891
= *Pteraster (Temnaster)* Verrill,1894
= *Lophopteraster* Verrill,1895
= *Pterasterides* Verrill,1909

P. acicula (Downey,1970)
= *Marsipaster acicula* Downey,1970
?Rockall Trough?, Florida - W Gulf of Mexico, below 260 m

P. alveolatus Perrier,1894
Azores, in 4060 m

P. hystrix Harvey,1989
W Rockall Trough, below 2085 m

P. militaris (O.F. Müller,1776)

= *Asterias militaris* O.F. Müller,1776
= *Pteraster aporus* Ludwig,1886
Off Bohuslän, whole coast of Norway, Greenland, Spitsbergen, Barents Sea, Kola Bay, White Sea, Franz Josef Land, Kara Sea, Rockall area, Cape Cod and northwards to circumboreal distribution, below 10 m

P. obscurus (Perrier,1891)
= *Hexaster obscurus* Perrier,1891
= *Pteraster (Temnaster) hexactis* Verrill,1894
NW - NE Finnmark, Greenland, Spitsbergen, Barents Sea, Kola Bay, Kara Sea, circumboreal, in W Atlantic S to Newfoundland, below 19 m

P. personatus Sladen,1891
=? *Pteraster sordidus* Perrier,1894
= *Pteraster reductus* Koehler,1907
Rockall Trough & off SW Ireland - ?Mauretania, Azores, Labrador, Gulf of Mexico, below 1371 m

P. pulvillus (M. Sars,1861)
Bohuslän, whole coast of Norway, Spitsbergen, Barents Sea, Kola Bay, White Sea, Franz Josef Land, Kara Sea, Laptev Sea, W of Galway, circumboreal, in W Atlantic S to E of Cape Cod, below 36 m

Myxasteridae Perrier,1885

Myxaster Perrier,1885 (™ *M. sol* Perrier,1885 - off NW Africa)

M. perrieri Koehler,1896
Biscay, in 1300 m

M. sol Perrier,1885
off NW Africa, Bamamas, below 1400 m

Pythonaster Sladen,1889 (™ *P. murrayi* Sladen,1889 - off E South America)

P. atlantidis A.H. Clark,1948
off S Azores, in 3200 m

BRISINGIDA Fisher,1928

Brisingidae G.O. Sars,1875

Brisinga Asbjørnsen,1856 (™ *Brisinga endecacnemos* Asbjørnsen,1856 - Hardangerfjord)
= *Brisinga (Craterobrisinga)* Fisher,1916

B. endecacnemos Asbjørnsen,1856
Norway between 60° and NE Finnmark - Cape Verde area, below 183 m

B. hirsuta Perrier,1894
Iberian Basin, Gulf of Guinea, below 640 m

Brisingella Fisher,1917 (™ *Brisinga fragilis* Fisher 1906 - Hawaii)

B. coronata (G.O. Sars,1871)
= *Brisinga coronata* G.O. Sars,1871
= *Brisinga mediterranea* Perrier,1885

Norway between 61° (Sognefjord) to 68° - Cape Verde, Azores, Mediterranean, below 100 m

Novodinia Dartnall, Pawson, Pope & B.J. Smith, 1969 (™ *Odinia semicoronata* Perrier, 1885 - W. Africa)

N. homonyma Downey, 1986
= *Brisinga elegans* Perrier, 1885, non Verrill, 1884
= *Odinia elegans* : Perrier, 1894
off S Canaries, in 1056-1435 m

N. pandina (Sladen, 1889) Downey, 1986
= *Odinia pandina* Sladen, 1889
Faeroe Channel, Hebridean Slope, below 90 m

N. semicoronata (Perrier, 1885) Downey, 1986
= *Brisinga semicoronata* Perrier, 1885
= *Brisinga robusta* Perrier, 1885
Biscay - off Senegal, below 1056 m

Freyellidae Downey, 1986

Colpaster Sladen, 1889 (™ *C. scutigerula* Sladen, 1889 - off Canaries)

C. edwardsi (Perrier, 1882) Downey, 1986
= *Brisinga edwardsi* Perrier, 1882
Biscay - off Canaries, below 1700 m

C. scutigerula Sladen, 1889
off SW Canaries, Gulf of Guinea, off Honduras, below 933 m

Freyastera Downey, 1986 (™ *Freyella sexradiata* Perrier, 1885 - NE Atlantic basin)

F. benthophila (Sladen, 1889) Downey, 1986
= *Freyella benthophila* Sladen, 1889
Biscay, between Spain & Azores, below 4700 m

F. sexradiata (Perrier, 1885) Downey, 1986
= *Freyella sexradiata* Perrier, 1885
Porcupine abyssal plain - off W Gibraltar, off Azores, off E North America, below 4020 m

F. tuberculata (Sladen, 1889) Downey, 1986
= *Freyella tuberculata* Sladen, 1889
between Canaries & Cape Verde, between Africa & Ascension, below 4298 m

Freyella Perrier, 1885 (™ *Freyella spinosa* Perrier, 1885 - ?)
= *Freyellidea* Fisher, 1917
= *Astrocles* Fisher, 1917

F. elegans (Verrill, 1884)
= *Brisinga elegans* Verrill, 1884
= *Freyella spinosa* Perrier, 1885
= *Freyella bracteata* Sladen, 1889
= *Freyella spinosa* var. *abyssicola* Perrier, 1894
= *Freyella aspera* Verrill, 1895
= *Freyella laubieri* Cherbonnier & Sibuet, 1973
Greenland to W. European Basin to Angola & south to North Carolina, below 1600 m

F. recta Koehler,1907
31°45'N, 42°42'W (Mid-Atlantic Ridge), in 3465 m

FORCIPULATIDA Perrier,1884

Asteriidae Gray,1840

Asterias Linnaeus,1758 (™ *Asterias rubens* Linnaeus,1758 - Europe?)
= *Stellonia* Nardo,1834
= *Uraster* L. Agassiz,1836
= *Asteracanthion* J. Müller & Troschel,1840
= *Asteracanthium* Brandt,1851
= *Allasterias* Verrill,1909
= *Parasterias* Verrill,1914

A. rubens Linnaeus,1758
[= *Stella marina* Reaumur, 1710]
[= *Stella coriacea acutangula* Linck,1733]
[= *Stella pentapetalos* Linck,1733]
[= *Pentadactylosaster asper* var. *hispidus* Linck,1733]
[= *Exaktin sol hexapetalos* Linck,1733]
[= *Heptaktin heptapetalos corio hispido* Linck,1733]
= *Asterias minuta* Linnaeus,1761
= *Asterias clathrata* Pennant,1777
= *Asterias rubens violacea* O.F. Müller,1776
= *Asterias holsatica* Retzius,1805
= *Asterias spinosa* Say,1825
= *Asterias vulgaris* Packard,1863
S. Baltic (from Stolpe Ränna)-Öresund & Belt Sea-Kattegatt-Bohuslän, Whole coast of Norway, S Barents Sea, Murmansk, Kola Bay, White Sea, off E Greenland, Europe - S Portugal, Labrador - S Carolina, from the shore - 900 m

Coscinasterias Verrill,1870 (™ *C. muricata* Verrill,1870 - Australasia)
= *Asterias (Stolasterias)* Sladen,1889
= *Polyasterias* Perrier,1893
= *Lytaster* Perrier,1894

C. tenuispina (de Lamarck,1816)
= *Asterias tenuispina* de Lamarck,1816
= *Asterias savaresi* Delle Chiaje,1827
= *Asterias atlantica* Verrill,1868
= *Lytaster inaequalis* Perrier,1894
S Biscay - Canaries & Cape Verde & Guinea, Mediterranean, Azores, Bermudas, North Carolina - Cuba - E Brazil, intertidal - 165 m

Icasterias Fisher,1923 (™ *Asterias panopla* Stuxberg - Siberian Sea)

I. panopla (Stuxberg,1878)
= *Asterias panopla* Stuxberg
North & East Finnmark, Greenland, Spitsbergen, Barents Sea, Murmansk, Kola Bay, Franz Josef Land, Kara Sea, in 18-560 m

Leptasterias Verrill,1866 (™ *Asteracanthion mülleri* M. Sars,1846 - Bergen area)
= *Leptasterias (Hexasterias)* Fisher,1930
= *Endogenasterias* D'yakonov,1938
= *Eoleptasterias* D'yakonov,1938

L. canuti Heding,1936
SE Greenland

L. clavispina Heding,1936

* Heding 1936 thinks that the Icelandic *L. muelleri* var. *nobilis* Heding,1935 may very likely be a synonym of his new species. Another possibility mentioned by him is that *L. clavispina* may be young specimens of *L. islandica* Levinsen.
SE Greenland

L. (Leptasterias) danica (Levinsen,1887)
Öresund-Kattegatt-S Skagerrak

L. degerboelli Heding,1935
SE Greenland

L. floccosa (Levinsen,18??)
E Greenland

L. floccosa var. *crassa* Heding,1935
SE - SW Greenland

L. (Endogenasterias) groenlandica (Steenstrup,1857)
= *Asteracanthion groenlandica* Steenstrup,1857
= *Asterias cribraria* Stimpson,1862
W & SE Greenland, Barents Sea, Kara Sea

L. (Leptasterias) hyperborea (Danielssen & Koren,1883)
= *Asterias hyperborea* Danielssen & Koren,1883
= *Asterias normani* Danielssen & Koren,1884
off NE Faeroes, Barents Sea, S Spitsbergen, Bear Island, Baffin Bay, above 380 m

L. hyperborea var. *intermedia* Heding,1935
SW Iceland (Faxe Floi)

L. (Leptasterias) islandica (Levinsen,1887)
= *Asterias mülleri* var. *islandica* Levinsen,1887
* Considered as a subspecies of the Bering Sea species *L. arctica* (Murdoch,1885) by D'yakonov 1950
Iceland, Faeroes

L. (Leptasterias) muelleri muelleri (M. Sars,1846) (Op. 984, ICZN)
= *Asteracanthion mülleri* M. Sars,1846
N. Kattegatt-Bohuslän, Norway S. to 58° (Langesundfjord), Murmansk, Dogger Bank, ?Shetlands, ?Faeroes, intertidal - ?140 m

L. (Leptasterias) muelleri celtica Clark & Downey,1992
= *Asterias hispida* Pennant,1777 (suppressed ICZN, Op. 984)
E. Scotland to Durham, N Ireland, Celtic Sea, intertidal

L. (Hexasterias) polaris (J. Müller & Troschel,1842)
= *Asteracanthion polaris* J. Müller & Troschel,1842
= *Asterias acervata* Stimpson,1862
= *Asterias borealis* Perrier,1875
circumpolar Arctic, Azores, in 0-360 m

Marthasterias Jullien,1879 (™ *Marthasterias foliacea* Jullien,1879 - Adriatic Sea?)

M. glacialis (Linnaeus,1758)

= *Asterias glacialis* Linnaeus,1758
[= *Sol echinatus cancellatus* Linck,1733]
= *Asterias spinosa* Pennant,1777
= *Asterias angulosa* O.F. Müller,1788
= *Asterias echinophora* Delle Chiaje,1827
= *Stellonia webbiana* d'Orbigny,1839
= *Asteracanthion africanus* J. Müller, & Troschel,1842
= *Asterias madeirensis* Stimpson,1862
= *Asterias rarispina* Perrier,1875
= *Marthasterias foliacea* Jullien,1878
Kattegatt-Bohuslän, Norway N. to 70.5° (Vargsund), Britain - Cape Verde, Canaries, Azores, Mediterranean, low water - 180 m

Sclerasterias Perrier,1891 (™ *S. guernei* Perrier,1891 - Biscay)

= *Stolasterias* Sladen,1889 (p.p.)
= *Distolasterias* Fisher,1906 (p.p.)
= *Orthasterias* Verrill,1914 (p.p.)
= *Stylasterias* Verrill,1914 (p.p.)
= *Eustolasterias* Fisher,1923
= *Triplasterias* Engel & Schroevers,1960

S. guernei Perrier,1891
Biscay, in 160-490 m

S. neglecta (Perrier,1891)
= *Stolasterias neglecta* Perrier,1891
= *Asterias edmundi* Ludwig,1897
Biscay, Mediterranean, below 166 m

"*S.*" richardi (Perrier,1882)
= *Asterias richardi* Perrier,1882
Mediterranean, below 100 m

Stephanasterias Verrill,1871 (™ *Asteracanthion albulus* Stimpson,1853 - Bay of Fundy)
= *Nanaster* Perrier,1894

S. albula (Stimpson,1853)
= *Asteracanthion albulus* Stimpson,1853
= *Asteracanthion problema* Steenstrup,1855
= *Asterias gracilis* Perrier,1881
Barents Sea, extremely common in E Greenland, Jan Mayen, Spitsbergen, Barents Sea, Murmansk, Kola Bay, Kara Sea, N North America, in 12-616 m

Stichastrella Verrill,1914 (™ *Asterias rosea* O.F. Müller,1776 - Norway)

S. ambigua (Farran,1913)
= *Stichaster roseus* var. *ambiguus* Farran,1913
Lousy Bank, SW of Faeroes, Rockall Trough & Porcupine Seabight, below 245 m

S. rosea (O.F. Müller,1776)
= *Asterias rosea* O.F. Müller,1776
= *Chaetaster hermanni* J. Müller & Troschel,1842
= *Stichaster arcticus* Danielssen & Koren,1883
Bohuslän - NW Finnmark, NE England, Scotland, W Britain - Biscay, in 4- 200 m

Urasterias Verrill,1909 (™ *Asteracanthion linckii* J. Müller & Troschel,1842 - Arctic)

U. linckii (J. Müller & Troschel,1842)
= *Asteracanthion linckii* J. Müller & Troschel,1842
[= *Pentadactylosaster reticulatus* Linck,1733]
= *Asteracanthion stellionura* E. Perrier,1869
= *Asterias gunneri* Danielssen & Koren,1884
= *Asterias enopla* Verrill,1895
Norway S. to 68°, Spitsbergen, Greenland, Barents Sea, Murmansk, Kola Bay, White Sea, Franz Josef Land, Kara Sea, Laptev Sea, circumboreal, south to Nova Scotia in W Atlantic, below 5 m

Pedicellasteridae Perrier,1884

Hydrasterias Sladen,1889 (™ *Asterias (Hydrasterias) ophidion* Sladen,1889 - off Nova Scotia)

H. sexradiata (Perrier, in Milne-Edwards,1882)
= *Pedicellaster sexradiatus* Perrier, in Milne-Edwards,1882
Rockall Trough - Cape Verde, Azores, below 600 m

Pedicellaster M. Sars,1861 (™ *Pedicellaster typicus* M. Sars - Norway)

P. typicus M. Sars,1861
= *Asteracanthion palaeocrystallus* Duncan & Sladen,1877
Bohuslän - according to A. Warén (verbal communication), Norway S. to 60° (Hardangerfjord), Spitsbergen, Barents Sea, Murmansk, Kola Bay, Kara Sea, Davis Strait, else Arctic, in W Atlantic south to New Jersey, below 100 m

Zoroasteridae Sladen,1889

Zoroaster Thomson,1873 (™ *Zoroaster fulgens* Thomson,1873 - Faeroe Channel)

Z. fulgens Thomson,1873
Faeroe Channel, Atlantic Ocean, 200-3000m,

Labidiasteridae Verrill,1914

Coronaster Perrier,1885 (™ *C. parfaiti* Perrier,1885 - Cape Verde)

C. volsellatus (Sladen,1889)
= *Asterias (Stolasterias) volsellatus* Sladen,1889
= *Coronaster antonii* Perrier,1894
Morocco, below 249 m

Neomorphasteridae Fisher,1923

Neomorphaster Sladen,1889 (™ *N. eustichus* Sladen,1889 - ?)
= *Glyphaster* Sladen,1885, non Hall,1852 (nomen nudum)
= *Calycaster* Perrier,1891
= *Gastraster* Perrier,1894

N. margaritaceus (Perrier, in Milne-Edwards,1882) A.M. Clark & Downey,1992
= *Pedicellaster margaritaceus* Perrier, in Milne-Edwards,1882
= *Stichaster talismani* Perrier,1885
= *Neomorphaster eustichus* Sladen,1889
= *Calycaster monoecus* Perrier,1891
= *Neomorphaster parfaiti* Koehler,1896
Rockall Trough, Hebridean Slope, SW Ireland, Morocco, Azores, below 400 m

OPHIUROIDEA Gray,1840

OEGOPHIURIDA Matsumoto

* No Atlantic species.

PHRYNOPHIURIDA

OPHIOMYXINA

Ophiomyxidae Ljungman,1867

Astrogeron Verrill,1899 (TM *Ophiogeron supinus* Lyman,1883 - West Indies)

* Regarded as a synonym of *Ophiogeron* Lyman,1878 by H.L. Clark

A. supinus (Lyman,1883)

= *Ophiogeron supinus* Lyman,1883

38° 35' N, 28° 6' W, West Indies, in 360-1250 m

Ophiogeron Lyman,1878 (TM *Ophiogeron edentulus* Lyman,1878 - Fiji)

O. edentulus Lyman,1878

* Mortensen 1927 is in doubt about this record, because the type was taken off Fiji

38° 11' N, 28° 6' W, in 1620 m

Ophiomyxa J. Müller & Troschel,1840 (TM *Ophiura pentagona* de Lamarck,1816 - Mediterranean)

= *Ophiodera* Verrill,1899

O. pentagona (de Lamarck,1816)

= *Ophiura pentagona* de Lamarck,1816

Biscay - Cape Verde, Mediterranean, in 0-235 m

O. serpentaria Lyman,1883

Faeroe Channel, off S Iceland, off SW Ireland, Denmark Strait, Azores, in 450-2440 m

Ophiophrixus H.L. Clark,1911 (TM *Ophiophrixus acanthinus* H.L. Clark,1911 - Japan)

O. spinosus (Storm,1881)

= *Ophioscolex?spinosa* Storm,1881

= *Ophiobyrza hystricis* Lyman,1883

= *OphiobyrSELLa hystricis* (Lyman,1883)

Nordmøre - Trondheimsfjord - Nordland, cold part of the Faeroe Channel, off SW Ireland, between Madeira & African coast, Lousy Bank, in 40-1310 m

Ophioscolex J. Müller & Troschel,1842 (TM *Ophioscolex glacialis* J. Müller & Troschel,1842 - Spitsbergen)

= *Ophiocynodus* H.L. Clark,1911

O. glacialis J. Müller & Troschel,1842

Whole Norwegian coast, Faeroe Channel, Jan Mayen, Barents Sea, Kola Bay, Franz Joseph Land, Kara Sea, Laptev Sea, Spitsbergen, NE Greenland, off S Iceland, Davis Strait, E North America, in 50-1900 m

O. purpureus Düben & Koren,1846

=? *Ophioscolex quadrispinus* Verrill,1885

Norway S. to 60°, White Sea, warm part of the Faeroe Channel, E & W Greenland, off S Iceland, off SW Ireland, Biscay, in 75-1480 m

EURYALINA J. Müller & Troschel, 1840

Asteronychidae Ljungman, 1867

Asteronyx J. Müller & Troschel, 1842 (TM *Asteronyx loveni* J. Müller & Troschel, 1842 - W Sweden)
= *Ophiuopsis* Studer, 1884

A. loveni J. Müller & Troschel, 1842
= *Ophiuopsis lymani* Studer, 1884
= *Asteronyx Locardi* Koehler, 1896
= *Asteronyx dispar* Lütken & Mortensen, 1899
= *Asteronyx Cooperi* Bell, 1909
Bohuslän & Skagerrak, Norway N. to 70.5° (Oksfjord), Scotlands, off S Iceland, SW Ireland, in 100-1800 m

Astrodia Verrill, 1900 (TM *Astrodia tenuispina* (Verrill, 1884) - deep N Atlantic)

A. tenuispina (Verrill, 1884)
= *Astrodia bispinosa* Koehler, 1922
off Spain & Portugal, off E North America, in 2365-3300 m

Gorgonocephalidae Ljungman, 1867, emend. Mortensen, 1933

Astrospartus Döderlein, 1911 (TM *Euryale mediterraneus* Risso, 1826 - Mediterranean)

A. mediterraneus (Risso, 1826)
= *Euryale mediterraneus* Risso, 1826
= *Euryale arborescens* L. Agassiz, 1839
= *Gorgonocephalus verrucosus* Grube, 1840
* Listed in Mortensen 1933 as *A. arborescens* (Risso), although the oldest reference to this species under this name in Sherborn 1922 is *Gorgonocephalus arborescens* L. Agassiz, 1839.
Mediterranean, Morocco, littoral

Gorgonocephalus Leach, 1819 (TM *Asterias caput-medusae* Linnaeus, 1758 - N. Europe)
= *Astrophyton* Schultze, 1760 (Nom. rej., Op. 636, ICZN)

G. arcticus Leach, 1819
= *Astrophyton Agassizi* Stimpson, 1853
E. Finnmark & slope S to 62° off Norway, Barents Sea, Kara Sea, Franz Joseph Land, Spitsbergen, around Greenland, arctic N America, in 5-1500 m

G. caputmedusae (Linnaeus, 1758)
= *Asterias caput-medusae* Linnaeus, 1758
= *Astrophyton Linckii* J. Müller & Troschel, 1842
= *Astrophyton scutatum* Fleming, 1828
Bohuslän & Skagerrak, Norway N. to 66°, Shetlands, Orkneys, Lousy Bank, SW Ireland, Firth of Forth, Cornwall, in 150-1200 m

G. eucnemis (J. Müller & Troschel, 1842) Lyman, 1882
= *Astrophyton eucnemis* J. Müller & Troschel, 1842
= *Gorgonocephalus caryi* Lyman, 1860
= *Astrophyton malmgreni* Danielssen & Koren, 1877
= *Gorgonocephalus japonicus* Döderlein, 1907

Norway S. to 70°, & slope to 60° off Norway, cold part of Faeroe Channel, Spitsbergen, Franz Joseph Land, Kara Sea, Greenland, North America south to Cape Cod, in 15-1850 m

G. Iamarckii (J. Müller & Troschel,1842) Lyman,1882

= *Astrophyton Lamarcki* J. Müller & Troschel,1842

Norway S. to 60.5°, warm part of Faeroe Channel, Iceland, Greenland, North America south to Nova Scotia, in 76-780 m

Euryalidae J.E. Gray,1840

* No species in European Seas.

Asteroschematidae Verrill,1899

Asteroschema Ørsted & Lütken, in Lütken,1856 (™ *Asterias oligactes* Pallas,1788 - Caribbean)

= *Lasपालia* Ljungman,1872, non Gray,1840

A. inornatum Koehler,19??

Biscay, off Madeira, in 1480->3000 m

Ophiocreas Lyman,1869 (™ *Ophiocreas lumbricus* Lyman,1879 - Caribbean)

O. oedipus Lyman,1879

off Madeira, in 1500-1968 m

OPHIURIDA J. Müller & Troschel,1840

GNATHOPHIURINA Matsumoto,1915

Ophiotrichidae Ljungman,1867

Ophiothrix J. Müller & Troschel,1840 (™ *Asterias pentaphylla* Pennant,1777 - Britain)

= *Ophionyx* J. Müller & Troschel,1840

O. fragilis (Abildgaard, in O.F. Müller,1789)

= *Asterias fragilis* Abildgaard, in O.F. Müller,1789

= *Asterias pentaphylla* Pennant,1777

= *Asterias echinata* Delle Chiaje,1822-29

= *Asterias rubra* Delle Chiaje,18??

= *Asteria Cuvieri* Delle Chiaje,1828

= *Ophiothrix Ferussacii* : J. Müller & Troschel,1842

= *Ophiothrix Rammelsbergii* J. Müller & Troschel,1842

= *Ophiothrix alopecurus* J. Müller & Troschel,1842

= *Ophiocoma rosula* : Forbes,1839

= *Ophiocoma minuta* : Forbes,1839

= *Ophiothrix lusitanica* Ljungman,1872

= *Ophiothrix rubra* Ljungman,1872

Öresund-Kattegat-Bohuslän, Norway N. to 70°, S Iceland, Britain, Bretagne - Guinea, Azores, Mediterranean, Sea of Marmara, in 0-475 (1200) m

O. indigna Koehler,1906

off Madeira, in 150-370 m

O. luetkeni Wyville Thomson,1873

Stavanger, Shetlands, W Ireland, Lousy Bank, Biscay, Azores, Canaries - Cape Verde, in 50-500 m

O. maculata Ljungman,1872
= *Ophiothrix inducta* Koehler,1906
Josephina Bank, off Canaries, in 200-410 m

O. quinquemaculata (Delle Chiaje,1828)
= *Ophiura quinquemaculata* Delle Chiaje,1828
Mediterranean, in 40-250 m

Ophiactidae Matsumoto,1915

Histampica A.M. Clark,1970
= *Amphiactis* Matsumoto,1915, non Verrill,1869 (Coelenterata)
* In Fell 1960 *Amphiactis* Matsumoto, 1915 is synonymized with *Ophiactis* Lütken, 1856.

H. duplicata (Lyman,1875)
Biscay, Azores, Cape Verde, West Indies, Indo-Pacific, in 628-2178 m

Ophiactis Lütken,1857 (™ *Ophiactis krebsii* Lütken,1857 - Caribbean)

O. abyssicola (M. Sars,1861) Ljungman,1866
= *Amphiura abyssicola* M. Sars,1861
= *Ophiactis poa* Lyman,1882
=? *Ophiactis cuspidata* Lyman,1882
= *Ophiactis corallicola* Koehler,1896
= *Ophiactis echinata* Koehler,1898
Arendal area - Troms, Faeroes & Faeroe Channel, Lousy Bank, Greenland, Davis Strait, Ireland - Biscay, Azores, in 125-4000 m

O. balli (W. Thompson,1840)
= *Ophiocoma Balli* W Thompson,1840
= *Ophiocoma Goodsiri* Forbes,1840 (Nov.)
Bohuslän, Norway N. to 69.5° (Troms), off W Faeroes, Rockall, Lousy Bank, Britain - off S Canaries, Mediterranean, in 50-1765 m

O. canotia Lyman,1882
off Azores, in 1800 m

O. lymani Ljungman,1872
15°54'N, 22°55'W, West Indies, in 91 m

O. nidarosiensis Mortensen,1920
Bergen area - Trondheimsfjord - NW Sør-Trøndelag, off S Iceland, ?Azores, off South Africa, in 200 m

O. profundi Lütken & Mortensen,1899
Azores, Pacific, below 650 m

O. savignyi (J. Müller & Troschel,1842)
= *Ophiopsis savignyi* J. Müller & Troschel,1842
= *Ophiactis krebsii* Lütken,1857
= *Ophiactis brocki* de Loriol,1893
E Mediterranean

O. virens (M. Sars,1857)
= *Amphiura virens* M. Sars,1857
* According to Mortensen 1927 it's generic placement is doubtful.

Azores, NW Africa - Cape Verde, Mediterranean, in 0-90 m

Ophiopholis J. Müller & Troschel, 1842 (™ *Ophiolepis (Ophiopholis) scolopendrica* J. Müller & Troschel, 1842 - Europe?)
= *Polypholis* Duncan, 1880

O. aculeata (Linnaeus, 1767)
= *Ophiolepis scolopendrica* J. Müller & Troschel, 1842
= *Ophiocoma bellis* : Forbes, 1839
= *Polypholis echinata* Duncan, 18??
Öresund & Belt Sea-Kattegatt-Bohuslän, whole Norwegian coast, Faeroes, Iceland, Barents Sea, White Sea, Kola Bay, Kara Sea, Franz Joseph Land, Rockall Bank, Britain, W Atlantic S to Cape Cod, circumboreal, ebb-zone -1880 m

Ophiopus Ljungman, 1867 (™ *Ophiopus arcticus* Ljungman, 1867 - Arctic)
= *Ophiaregma* G.O. Sars, 1872

O. arcticus Ljungman, 1867
= *Ophiaregma abyssorum* G.O. Sars, 1872
Slope off Norway S. to 62.5°, Spitsbergen, Iceland (not south coast), Franz Joseph Land, Greenland, Faeroe Channel, in 50- 1200 m

Amphiuridae Ljungman, 1867

Acrocnida Gislén, 1926 (™ *Asterias brachiata* Montagu, 1804 - Britain)

A. brachiata (Montagu, 1804)
= *Asterias brachiata* Montagu, 1804
= *Amphiocnida brachiata* (Montagu)
= *Amphiura neapolitana* M. Sars, 1857
Kattegatt, Bohuslän, Danish North Sea coast, British North Sea coast, central North Sea, Bretagne, Mediterranean, in ebb-zone - 40 m

A. semisquamata (Koehler, 1???)
W Africa

Amphichilus Matsumoto, 1917 (™ *Amphichilus trichoides* Matsumoto, 1917 - N Pacific)

A. daleus (Lyman, 1882) Matsumoto, 1917
= *Amphiura dalea* Lyman, 1882
Denmark Strait, S Atlantic, in 1170-5870 m

Amphioplus Verrill, 1899 (™ *Amphiura tumida* Lyman, 1899 - Caribbean)

A. verrilli (Lyman, 1879)
= *Silax pulvinus* Cherbonnier & Sibuet, 1972
Iberian deep sea basin, in 775-4845 m

Amphipholis Ljungman, 1867 (™ *Amphipholis januarii* Ljungman, 1867 - Brazil)

A. instructa Koehler, 1906
Cape Verde, in 75-80 m

A. murmanica D'yakonov, 1929
Kola Bay, in 20 m

A. squamata (Delle Chiaje, 1829)

= *Asterias squamata* Delle Chiaje, 1829
= *Amphiura elegans* (Leach, 1815) (Cf. Op. 1560, ICZN)
= *Axiognathus squamata* (Delle Chiaje)
= *Amphipholis tenera* Lütken, 18??
= *Amphipholis lineata* Ljungman, 1872
* This species should possibly be transferred to *Axiognathus* Thomas, 1966.
Öresund-Kattegat-Bohuslän - all Norway, W Murmansk coast, Iceland, Davis Strait,
Britain, Roscoff, Azores, Mediterranean, between littoral region - 480 m

A. torelli Ljungman, 1872
Iceland, Greenland, W Barents Sea, Baffin Bay, from littoral -600 m

Amphiura Forbes, 1843 (TM *Amphiura chiajii* Forbes, 1843 - North Sea)
= *Ophiopeltis* Düben & Koren, 1846
= *Hemilepis* Ljungman, 1872

A. abyssorum Norman, in Jeffreys, 1876
=? *A. digna* Koehler, 1906
19°19'N, 20°22'W, 55°10'N, 25°58'W, in 915-3265 m

A. bellis Lyman, 1879
off Portugal, off Fiji & Japan, in 627-1290 m

A. bellis var. *tritonis* Hoyle, 1884
off N Hebrides, in 930 m

A. borealis (G.O. Sars, 1871) Ljungman, 1872
= *Ophiopeltis borealis* G.O. Sars, 1871
Arendal area - Troms, Faeroe Channel, S Iceland, W Murmansk area, in 150-800 m

A. cherbonnieri ?, 19??
Adriatic

A. chiajei Forbes, 1843
Öresund-Kattegat-Bohuslän - Nordland, central North Sea, Britain, Lousy Bank,
Biscay, W Iberia - NW Africa, Azores, Mediterranean, in 9- 1200 m

A. delamarei Cherbonnier, 1958?
Balear Islands

A. denticulata Koehler, 1898
Faeroe Channel, Greenland - Newfoundland, in 155-1100 m

A. filiformis (O.F. Müller, 1776)
= *Asterias filiformis* O.F. Müller, 1776
Öresund-Kattegat-Bohuslän - Nordland, North Sea, Iceland, Britain - W Iberia -
Mediterranean, in 5- 1200 m

A. fragilis Verrill, 1885
= *Amphiura denticulata* Koehler, 1898
Faeroe Channel & Greenland - Davis Strait - Newfoundland

A. grandisquama Lyman, 1869
= *Amphiura josephinae* Ljungman, 1872
= *Amphiura iris* Lyman, 1879
= *Amphiura longispina* Koehler, 1???
Biscay, off Portugal - Canaries, Azores - Cape Verde, W Indies, off Florida, Pacific, in
288-1635 m

A. griegi Mortensen,1920
Hardangerfjord, Trondheimsfjord

A. incana Lyman,1879
Ireland, France, Portugal, SE Atlantic

A. mediterranea Lyman,1882
Mediterranean, in 3-50 m

A. otteri Ljungman,1872
= *Amphiura grandis* Koehler,1896
Biscay, off Portugal, Azores, Canaries, Cape Verde, West Indies, off Cape Cod, in
210-3200 m

A. palmeri Lyman,1882
off S Iceland, Denmark Strait, Davis Strait, 42°42'N, 11°56'W, West Indies, in 180-470
m

A. richardi Koehler,1906
off Portugal, Azores, in 1165-1494 m

A. sarsi Ljungman,1872
Josephina Bank, Azores, in 200-540 m

A. securigera (Düben & Koren,1846)
= *Ophiopeltis securigera* Düben & Koren,1846
Norway between 59.5-68°, SW Barents Sea, off Shetlands, Faeroe Channel, Ireland,
Engl. Channel, W France, NW Mediterranean, Adriatic, in 40-600 m

A. senegalensis Madsen,1970
Senegal

A. stepanovi D'yakonov,1954
= *A. stepanovi* Chernyavskii,1861 (nomen nudum)
= *A. stepanovi* Lyman,1869 (nomen nudum)
Black Sea, Sea of Marmara

A. sundevalli (J. Müller & Troschel,1842)
= *Ophiopeltis sundevalli* J. Müller & Troschel,1842
Barents Sea, Spitsbergen, Murmansk, W Novaja Zemlya, Kara Sea, Laptev Sea,
Greenland Sea, Greenland, Gulf of St Lawrence, in 30-200 (820) m

Monamphiura Fell,1962

M. apicula (Cherbonnier,1957)
= *Amphiura apicula* Cherbonnier,1957
W Mediterranean, Adriatic, in 15-170 m

Paramphiura Koehler,1895 (™ *Ophiocoma punctata* Forbes,1841 - North Sea)

P. punctata (Forbes,1841)
= *Ophiocoma punctata* Forbes,1841
Central North Sea, Engl. Channel

Amphilepididae Matsumoto,1915

Amphilepis Ljungman,1867 (™ *Amphiura norvegica* Ljungman,1865 - Norway)

A. norvegica (Ljungman,1865)
= *Amphiura norvegica* Ljungman,1865
Bohuslän, Norway N. to 69.5° (Troms), Faeroe Channel, off SW Ireland - S Biscay &
off S Canaries, Mediterranean, in 100-2900 m

A. ingolfiana Mortensen,1933
off S Iceland, Rockall Trough, Davis Strait, E North America, below 957 m

LAEMOPHIURINA

Ophiacanthidae Perrier,1891

Ophiacantha J. Müller & Troschel,1842 (TM *Ophiacantha spinulosa* J. Müller &
Troschel,1842 - North Atlantic)
= *Ophiotreta* Verrill,1899
= *Ophiectodia* Verrill,1899
= *Ophientodia* Verrill,1899
= *Ophioscalus* Verrill,1899
= *Ophiopristis* Verrill,1899
= *Ophiodiplax* Koehler,1911

O. abyssicola G.O. Sars,1871
= *Ophiacantha millespina* Verrill,1879
Norway between 60-70° (Kvænangen), Faeroe Channel, off W Ireland, Biscay, Azores,
Greenland - E North America, in 35-3500 m

O. angolensis ?,1???
?off Portugal, Angola

O. anomala G.O. Sars,1871
=? *Ophiacantha nodosa* Lyman,18??
Slope 62-68° off Norway, off S Iceland, Greenland, off Nova Scotia, in 200-1400 m

O. aristata Koehler,1???
off SW Ireland, Biscay, Azores, in 820-1740 m

O. bidentata (Retzius,1805)
= *Asterias bidentata* Retzius,1805
= *Ophiacantha spinulosa* J. Müller & Troschel,1842
= *Ophiacantha groenlandica* J. Müller & Troschel,1844
= *Ophiacantha fraterna* Verrill,1885
= *Ophiacantha hibernica* Farran,1913
off Egersund - all the way northwards off Norway, Barents Sea, Kola Bay, White Sea,
Kara Sea, Arctic circumpolar, Faeroe Channel, off SW Ireland, Azores, Cape Verde,
south to 33°N along E North America, in 10-4500 m

O. brevispina Koehler,1898?
Biscay, in 166 m

O. composita Koehler,1907
E Atlantic between 20°N-46°N, in >3000 m

O. crassidens Verrill,1???
* According to Mortensen 1927 this is likely a synonym of *O. nodosa* Lyman
off SW Ireland, Azores - off S Canaries, 45° 26' N, 25° 45' W, Cape Hatteras, in 970-
3120 m

- O. cuspidata* Lyman,1882
off SW Iceland, off Azores, off Ascension, in 785-2460 m
- O. (Ophiotreta* Verrill,1899) *danae* Mortensen,1933
= *O. valenciennesi* : Lieberkind,1929, non Lyman
Faeroe Bank, in 150 m
- O. decipiens* Koehler,1906
off Azores, in 1257 m
- O. densa* Farran,1913?
off SW Ireland - off W Sahara, in 740-1310 m
- O. enopla veterna* (Koehler,1907)
Azores, Madeira, in 1968-2200 m
- O. hirsuta* Lyman,1875
off Madeira, West Indies, in 150-1500 m
- O. lineata* Koehler,1909
off Azores, off W Sahara, off Florida, in 490-1165 m
- O. mesembria* H.L. Clark,1915
off Azores, West Indies, in 250-2870 m
- O. nodosa* Lyman,1882
off S Canaries, in 3145 m
- O. notata* Koehler,1906
off NW Spain, in 1226 m
- O. opercularis* (Koehler,1909)
= *Ophiolimna opercularis* Koehler,1909
12° 7' N, 33° 33' W, in 6035 m
- O. parcita* Koehler,1906
off Cape Verde, in 600 m
- O. setosa* (Retzius,1805)
= *Ophiura setosa* Retzius,1805
Biscay - N Africa, Azores, Mediterranean, in 50-1480 m
- O. smitti* Ljungman,1872
off Portugal, in 1420 m
- O. simulans* Koehler,1896
= *O. composita* : Koehler,1906, non Koehler,1904
= *O. composita* : Mortensen,1927
off S & SW Iceland, Biscay, off Canaries, in 1480-3018 m
- O. spectabilis* G.O. Sars,1871
SW Sør-Trøndelag -Trondheimsfjord - Troms, Faeroe Channel, off S Iceland, Biscay, E
North America, in 150-1700 m
- O. spinosella* Mortensen,1933
off S Iceland, in 500-560 m
- O. valenciennesi* Lyman,1879

Azores, Cape Verde, Malayan archipelago, in 200-1900 m

Ophiambix Lyman,1880 (™ *Ophiambix aculeatus* Lyman,1880 - Fiji)

O. devaneyi Paterson,1985
NE Atlantic

O. meteoris Bartsch,1983
Iberian deep sea basin

Ophiocamax Lyman,1878 (™ *Ophiocamax vitrea* Lyman,1878 - Indian Ocean)

O. dominans Koehler,19??
25° 29'N, 18° 22'W, in 882 m

Ophiochondrus Lyman,1869 (™ *Ophiochondrus convolutus* Lyman,1869 - Cuba)
* Fell 1960 is placing this genus in fam. Hemieuryalidae Verrill,1899.

O. armatus (Koehler,1909)
= *Ophioplus armatus* Koehler,1909
* According to Mortensen 1927, this species should be moved to a new genus.
SW Ireland, Azores

Ophiocomina Mortensen,1920 ex Koehler MS (™ *Asterias nigra* Abildgaard,1789 - North Atlantic)

O. nigra (Abildgaard, in O.F. Müller,1789)
= *Asterias nigra* Abildgaard, in O.F. Müller,1789
= *Ophiocoma nigru* (Abildgaard)
= *Ophiocoma Nilssoni* J. Müller & Troschel,1842
= *Ophiocoma granulata* : Forbes,1839
= *Ophiocoma Raschi* G.O. Sars,18??
= *Ophiacantha danae* Mortensen,1933
Öresund-Kattegatt-Bohuslän, Norway N. to 65.5°, Faeroes, Britain - Portugal, Azores, Mediterranean, in 0-400 m

Ophiolebes Lyman,1878 (™ *Ophiolebes scorteus* Lyman,1878 - Antarctic)

O. bacata Koehler,1909
32°35'N, 17°5'W, in 1700 m

O. resecta (Koehler,1896)
= *Ophioscolex resectus* Koehler,1896
Biscay, in 1410 m

Ophiomitra Lyman,1869 (™ *Ophiomitra valida* Lyman,1869 - Caribbean)

O. hamula Mortensen,1933
off S Iceland, in 1900 m

Ophiopsila Forbes,1845 (™ *Ophiopsila aranea* Forbes,1845 - SW Britain)
= *Ophianoplus* M. Sars,1857
* Genus not listed in this family in Fell 1960.

O. annulosa (M. Sars,1859)
= *Ophianoplus annulosus* M. Sars,1859
W Ireland, SW Scotland, Morocco, Mediterranean, in 60-100 m

O. aranea Forbes,1845
= *Ophianoplus marmoreus* M. Sars,18??
W Ireland, SW Britain - Morocco, Azores, Mediterranean, in 25-185 m

Ophioplinthacinae Paterson,1985

Ophiomitrella Verrill,1899 (™ *Ophiacantha laevipellis* Lyman,1883 - Caribbean)

O. clavigera (Ljungman,1865)
= *Ophiactis clavigera* Ljungman,1865
= *Ophiolebes claviger* (Ljungman,1865)
= *Ophiolebes acanellae* Verrill,1885
=? *Ophiomitrella cordifera* Koehler,1909
Skagerrak, Norway at 61.5°, off W Faeroes, off S Iceland, off SW Ireland, Azores,
Madeira, W Greenland - South Carolina, in 250-1500 m

O. globulifera (Koehler,1896)
Biscay, Canaries - Cape Verde, in 930-1700 m

Ophioplinthaca Verrill,1899 (™ *Ophiomittra dipsacos* Lyman,1878 - West Indies)

O. carduus (Lyman,1882)
25°49'N, 20°12'W, 30°17'N, 43°7'W, in 3015-3530 m

O. chelys (Lyman,1882)
* Author may be Wyville Thomson and not Lyman?
30°38'N, 20°12'W, 39°48'N, 12°12'W, 40°58'N,9°40'W, in 795-3307 m

Ophiothamnus Lyman,1869 (™ *Ophiothamnus vicarius* Lyman,1869 - Caribbean)
= *Ophioledea* Koehler,1906

O. affinis Ljungman,1872
= *Ophioplinthaca occlusa* Koehler,1907
= *Ophioledea minima* Koehler,1906
= *Ophiothamnus minima* Matsumoto,1917
Biscay - off Madeira, in 1220-1425 m

O. chariis H.L. Clark,1915
= *Ophiothamnus gracilis* (Verrill,1885), non (Studer,1822)
Davis Strait, Nova Scotia

Ophiotominae Paterson,1985

Ophiolimna Verrill,1899 (™ *Ophiacantha bairdi* Lyman,1883 - North Circumpolar)

O. bairdi (Lyman,1883) Verrill,1899
= *Ophiacantha bairdi* Lyman,1883
unknown "Talisman" station, off Canaries, off S Iceland, Denmark Strait, Davis Strait,
E North America, in 620-2600 m

Ophiomedeia Koehler,1906 (™ *Ophiomedeia duplicata* Koehler,1906 - North Atlantic)

O. duplicata Koehler,1906
29°52'N, 14°4'W, in 2075 m

Ophioprium Verrill,1899 (™ *Ophiacantha cervicornis* Lyman,1883 - Atlantic)

O. rosea (Lyman,1879) Baker & Devaney,1981

= *Ophiacantha rosea* Lyman,1879
= *Ophiacantha truncata* Koehler,1930
Biscay, Indo-Pacific, in 315-1700 m

Ophiotoma Lyman,1883 (™ *Ophiotoma coriacea* Lyman,1883 - N Atlantic)
= *Ophiopora* Verrill,1899

O. bartletti (Lyman,18??)
North Atlantic between 20°N-62°N, in 530-3465 m

O. coriacea Lyman,1883
* May be a synonym of *O. bartletti* (Lyman)
off S Iceland, 51° 22'N, 12° 41' W, Azores, West Indies, in 530-3465 m

Ophiotrema Koehler,1896 (™ *Ophiotrema alberti* Koehler,1896 - Azores)

O. alberti Koehler,1896
38°8'N,23°19'W, 42°19'N, 23°36'W, 51°7'S, 9°31'W, in 3785-4060 m

Ophiohelinae

Ophiomyces Lyman,1869 (™ *Ophiomyces frutectosus* Lyman,1869 - N Atlantic)

O. frutectosus Lyman,1869
Josefina Bank, Azores, in 210-1080 m

O. grandis Lyman,1878
off Faeroes, Biscay, below 515 m

Hemieuryalidae Verrill,1899
* No species in European Seas.

CHILOPHIURINA Matsumoto,1915

Ophiuridae J. Müller & Troschel,1840

Amphiophiura Matsumoto,1915 (™ *Ophioglypha bullata* Wyville Thomson,1873 - Bermuda)

A. bullata (Wyville Thomson,1873) Matsumoto,1915
= *Ophioglypha bullata* Wyville Thomson,1873
= *Ophioglypha abdita* Koehler,1909
Biscay, off Portugal, Bermudas, 12°7'N, 33°33'W, in 2230-6035 m

A. bullata convexa (Lyman,1878)
= *Ophioglypha convexa* Lyman,1878
Biscay, between Azores & Madeira, off New England, in 2940-4700 m

A. bullata vitjazi Litvinova,1971
= *A. vitjazi* Litvinova,1971
N Atlantic

A. saurura (Verrill,1894)
= *Ophioglypha saurura* Verrill,1894
= *Ophioglypha aspera* Koehler,1898
62°10'N, 19°36'W, off N America, in 850-2140 m

Anthophiura H.L. Clark,1911 (™ *A. axiologa* H.L. Clark,1911 - Aleutians)

A. ingolfi Fasmer,1930
Denmark Strait, in 2300 m

Aspidophiura Matsumoto,1915 (™ *Aspidophiura watasei* Matsumoto,1915 - Japan)

A. minuta (Lyman,1878)
= *Ophioglypha minuta* Lyman,1878
Biscay, in 1710-4020 m

Homophiura Paterson,1985 (™ *Ophioglypha tessellata* Verrill,1894 - W Atlantic)

H. abyssorum (Lyman,1883)
W Atlantic

H. abyssorum var. *africana* (Madsen,1947)
= *Homalophiura abyssorum* var. *africana* Madsen,1947
35°43'N, 8°16'W, in 2150-2300 m

H. tessellata (Verrill,1894)
= *Ophioglypha tessellata* Verrill,1894
= *Homalophiura tessellata* (Verrill,1894)
SW & S of Iceland, Denmark Strait, Davis Strait, Biscay - Cape Verde, off Azores, E
North America, in 458-3720 m

Ophiecten Lütken,1855 (™ *Ophiecten kröyeri* Lütken,1855 - Greenland)

O. abyssicolum von Marenzeller,18??
* *O. abyssicolum* (Forbes), considered by Mortensen 1927 to be a synonym of *O.*
sericeum (Forbes) (which in his view included *O. gracilis* (G.O. Sars)) is a homonym.
Mediterranean, in 150-620 m

O. affinis (Lütken,1858) Sumida, Tyler, Gage & Nørrevang,1998
= *Ophiura affinis* Lütken,1858
Öresund-Kattegat-Bohuslän, whole Norwegian coast, Kola Bay, all North Sea,
Shetlands, Ireland, Britain, Lousy Bank, Azores, ?Biscay, ?Mediterranean, in 8-550 m

O. centobi Paterson, Tyler & Gage,1982
Biscay

O. gracilis (G.O. Sars,1871)
= *Ophioglypha gracilis* G.O. Sars,1871
= *Ophiecten sericeum* : Auctt., non (Forbes,1852) (p.p.)
= *Ophioglypha signata* Verrill,1882
= *Ophiura signata* (Verrill,1882)
* Complete distribution not sure, because this was earlier considered as a warm water
form of the else cold water confined *O. sericeum* (Forbes).
Vestfold - NE Norway, Faeroe Channel, off W Ireland, E North America, in 110-900 m

O. hastatum Lyman,1878
= *Ophiecten longispinum* Koehler,1898
= *Ophiecten pacificum* Lütken & Mortensen,1899
= *Ophiecten latens* Koehler,1906
Denmark Strait, Biscay, off NW Spain, 42°19'N, 23°26'W, Davis Strait, off Azores,
?Pacific, in 1674-4700 m

O. scutatatum Koehler,1898
N Scotland, off SW Ireland, Biscay, off Newfoundland, in 88-160 m

O. sericeum (Forbes,1852)

= *Ophiura sericea* Forbes,1852

= *Ophiocten kroeyeri* Lütken,1855

off Bergen - E. Finnmark & Norwegian Sea basin

Ophioctenella Tyler, Paterson, Sibuet, Guille, Murton & Segonzac,1995 (™ *O. acies* Tyler, Paterson, Sibuet, Guille, Murton & Segonzac,1995 - central N Atlantic)

O. acies Tyler, Paterson, Sibuet, Guille, Murton & Segonzac,1995

hydrothermal mounds along the mid-Atlantic Ridge

Ophiomisidium Koehler,1914 (™ *Ophiomisidium speciosum* Koehler,1914 - Brazil)

O. pulchellum (Wyville Thomson,18??)

= *Ophiomusium pulchellum* Wyville Thomson,18??

off Portugal, S of the Canaries, 25°49', 20°12'W, in 270-3065 m

Ophiomusium Lyman,1869 (™ *O. eburneum* Lyman,1869 - Caribbean)

O. africanum Koehler,1909

SW of Cape Verde, in 219 m

O. lymani Wyville Thomson,1873

off S Iceland, Denmark Strait, Davis Strait, W Britain, off SW Ireland, widely distributed in both Atlantic & Indo-Pacific,in 130-3435 m

Ophiophycis Koehler,1901 (™ *Ophiophycis mirabilis* Koehler,1901 - Azores)

O. mirabilis Koehler,1901

off Azores, in 1165 m

Ophiopleura Danielssen & Koren,1877 (™ *Ophiopleura borealis* Danielssen & Koren,1877 - Norwegian Sea)

= *Lütkenia* Duncan,1878, non Claus,1864, nec Steindachner,1877, nec Brock,1888

O. aurantiaca (Verrill,1882) Verrill,1882

= *Ophioglypha aurantiaca* Verrill,1882

warm part of the Faeroe Channel, off SW Ireland, Biscay, Azores, Denmark Strait, Davis Strait, E North America, in 280-1725 m

O. borealis Danielssen & Koren,1877

= *Luetkenia arctica* Duncan,1878

Slope off Norway S. to 68° & Norwegian Sea basin, cold part of the Faeroe Channel, N Barents Sea, Franz Joseph Land, Kara Sea, E Greenland - Spitsbergen,

Ophiosphalma H.L. Clark,1941 (™ *Ophiomusium planum* Lyman,1878 - Caribbean)

O. armigerum (Lyman,1878) H.L. Clark,1841

= *Ophiomusium armigerum* Lyman,1878

off Madeira, West Indies, S Atlantic, in 556- 5000 m

O. planum (Lyman,1878) H.L. Clark,1941

= *Ophiomusium planum* Lyman,1878

Faeroe Channel - Biscay & Azores - Cape Verde Delaware Bay - West Indies, Indian Ocean, in 262-5005 m

Ophiotjalfa Mortensen,1913 (™ *Ophiotjalfa vivipara* Mortensen,1913 - N Atlantic)

- O. vivipara*** Mortensen,1913
off SW Iceland, Davis Strait, in deep water
- Ophiotya*** Koehler,1897 (TM *Ophiotya simplex* Koehler,1897 - Indian Ocean)
- O. simplex*** Koehler,1897
42°19'N, 22°36'W, off SW Cape Verde, in 2925-4360 m
- Ophiozonella*** Matsumoto,1915 (TM *Ophiozona longispina* H.L. Clark,1908 - Japan)
- O. molesta*** (Koehler,1906)
= *Ophiozona molesta* Koehler,1906
off Canaries, Malay archipelago, in 1270-2115 m
- O. sincera*** (Koehler,1906)
= *Ophiozona sincera* Koehler,1906
Biscay, in 1226-1600 m
- O. tjalfiana*** (Mortensen,1913) Matsumoto,1915
= *Ophiozona tjalfiana* Mortensen,1913
* Probably a synonym of *Ophiochiton ternispinus* according to Mortensen 1933
of S Iceland, Davis Strait
- Ophiura*** de Lamarck,1801 (TM *Asterias ophiura* Linnaeus,1758 - Norway) (Op. 1152, ICZN)
= *Ophioglypha* Lyman,1860
= *Ophioglyphina* Ludwig,1886
= *Ophiozea* A.H. Clark,1920
- O. albida*** Forbes,1839
Rügen & Bornholm-Öresund & Belt Sea-Kattegat-Bohuslän, whole Norwegian coast, Kola Bay, Faeroes, S & W Iceland, Britain - Madeira, Azores, Mediterranean, in 2-850 m
- O. africana*** (Koehler,1???)
= *Ophiocten africana* Koehler,1???
Morocco - Angola, W Mediterranean, in 30-60 m
- O. (Dictenophiura* H.L. Clark,1923) *carnea*** Lütken,1858 ex M. Sars MS
* The type of *Dictenophiura* H.L. Clark,1923 is *O. carnea* Lütken.
Norway between 58° (Arendal) - 69.5° or Vadsø, off Faeroes, off W Ireland, Azores, Cape Verde, Mediterranean, in 50-1260 m
- O. clemens*** (Koehler,1906)
= *Ophioglypha clemens* Koehler,1906
off Cape Finisterre, Malay archipelago, Philippines, in 700-1916 m
- O. flagellata*** (Lyman,1878)
= *Ophioglypha flagellata* Lyman,1878
= *Gymnophiura caerulea* Lütken & Mortensen,1899
off Africa (between Canaries & Cape Verde), in 96-2330 m
- O. grubei*** Heller,1863
Mediterranean, Atlantic Morocco, in 10-45 m
- O. imprudens*** (Koehler,1906)
= *Ophioglypha imprudens* Koehler,1906

off Azores, in 560 m

O. inermis (Lyman,1882)

= *Ophioglypha inermis* Lyman,1882

S of the Canaries, Tristan d'Acunha, in 900-1786 m

O. (Ophiuroglypha* Hertz,1927) *irrorata (Lyman,1878)

= *Ophioglypha irrorata* Lyman,1878

= *Ophioglypha orbiculata* Lyman,1882

= *Ophioglypha involuta* Koehler,1899

= *Ophioglypha tumulosa* Lütken & Mortensen,1899

= *Ophioglypha grandis* Verrill,1894

off Iceland, Biscay, off Canaries, off New England, cosmopolitan in warm & temperate seas, in 405-5870 m

O. (Ophiuroglypha* Hertz,1927) *irrorata concreta (Koehler,1901)

= *Ophioglypha concreta* Koehler,1901

45°26'N, 25°45'W, off Azores, off Cape Verde, in 2478-3120 m

O. (Ophiuroglypha* Hertz,1927) *irrorata polyacantha Mortensen,1933

= *Homalophiura multispina* Cherbonnier & Sibuet,1972

Davis Strait

O. ljunmani (Lyman,1878)

= *Ophioglypha ljunmani* Lyman,1878

= *Ophioglypha lepida* Lyman,1882

= *Ophioglypha Thouleti* Koehler,1896

off S Iceland, Rockall Trough, Biscay, off Azores, off Canaries, off E North America, in 630-2700 m

O. madseni (Belyaev,1972)

= *Homalophiura madseni* (Belyaev,1972)

?NE Atlantic

O. (Ophiuroglypha* Hertz,1927) *mundata Koehler,1906

off SW Iceland, Denmark Strait, off Azores, off Canaries, in 1674-4315 m

O. nitida Mortensen,1933

off SW Iceland, in 2000 m

O. ophiura (Linnaeus,1758)

= *Asterias ophiura* Linnaeus,1758

= *Ophiura ciliaris* (Linnaeus,1766)

= *Ophiura ciliata* (Retzius,1783) non (O.F. Müller,1776)

= *Ophiura lacertosa* (Pennant,1777)

= *Ophiura texturata* de Lamarck,1816 (Op. 1152, ICZN)

Öresund & Belt Sea-Kattegatt-Bohuslän, Norway N. to 68°, Britain - Madeira, Mediterranean, in 0-300 m

O. robusta (Ayres,1851)

= *Ophiolepis robusta* Ayres,1851

= *Ophiura fasciculata* Forbes,1854

= *Ophiura squamosa* Lütken,1859

* *O. robusta* is the type species of *Ophioglyphina* Ludwig,1886 (Syn.: *Ophiozea* A.H. Clark,1920)

Öresund & Belt Sea-Kattegatt-Bohuslän-Skagerrak, whole Norwegian coast, Shetlands - Durham, Faeroes, Iceland, Spitsbergen, Barents Sea, White Sea, Kara Sea, Greenland, NE America south to Cape Cod, in 6-450 (1000) m

O. sarsii Lütken,1858
Öresund-Kattegat-Bohuslän, whole Norwegian coast, Barents Sea, Kara Sea, Laptev Sea, Helgoland, Faeroe Channel, Rockall Bank, circumpolar, along E North America south to 35°N, in 10-3000 m

O. violaine (Cherbonnier & Sibuet,1972)
= *Homalophiura violaine* Cherbonnier & Sibuet,1972
?NE Atlantic

Ophiurolepis Matsumoto,1915 (™ *Ophiulepis carinata* Studer,1876 - Kerguelen & Heard Isl.)

O. inornata (Lyman,1878) Paterson,1985
= *Ophioglypha inornata* Lyman,1878
= *Homalophiura inornata* (Lyman,1878)
= *Ophioglypha indivisa* Lütken & Mortensen,1899
off Azores, off Canaries, Indo-Pacific, in 470-3330 m

Stegophiura Matsumoto,1917 (™ *Ophiura nodosa* Lütken,1858 - Arctic)

S. nodosa (Lütken,1858) Matsumoto,1917
= *Ophiura nodosa* Lütken,1858
Spitsbergen, White Sea, Kara Sea, Novaja Zemlja, Franz Joseph Land, W Greenland, E Arctic, in 0-565 m

S. stuwitzii (Lütken,1858) Matsumoto,1917
= *Ophiura stuwitzii* Lütken,1858
Davis Strait, ?circumboreal?, in 77-630 m

Uriopha Paterson,1980 (™ *U. ios* Paterson,1980 NE Atlantic)

U. ios Paterson,1980
NE Atlantic

Ophioleucidae Matsumoto,1915

Ophiernus Lyman,1878 (™ *Ophiernus vallincola* Lyman,1878 - Crozet Island)

O. adpersus Lyman,1883
* Is the spelling adpersum ?
20°38'N, 20°40'W, in (20) 1160-3650 m

O. vallincola Lyman,1878
= *Ophiernus abyssalis* Koehler,1896
off NW Spain, off Azores, off Madeira, Indo-Pacific, in 840-4080 m

Ophiocrates Koehler,1904 (™ *Ophiocrates lenta* Koehler,1904 - Indonesia)

O. intervallus Madsen,1947
35°43'N, 8°16'W, in 2150-2300 m

O. secundus Koehler,1906
off S Canaries, in 2325-2638 m

Ophiopyren Lyman,1878 (™ *O. longispinus* Lyman,1878 - Caribbean)

O. striatum Mortensen,1933

off NE Iceland, N of Kara Sea, Laptev Sea

Ophiocomidae Ljungman,1867

* No species in European Seas.

Ophionereididae

= Ophiochitonidae Matsumoto,1915

Ophiochiton Lyman,1878 (™ *Ophiochiton fastigiatus* Lyman,1878 - Japan)

O. solutus Koehler,1906

off Azores, off Madeira, in 1139-2220 m

O. ternispinus Lyman,1883

= *Ophiochiton tenuispinus* Hoyle,1884

= *Ophiochiton grandis* Verrill,1884

off SW & NW Ireland, between Scotland & Rockall, Davis Strait, US East coast, in 442-1853 m

Ophionereis Lütken,1859 (*Ophiura reticulata* Say,1825 - Caribbean)

O. reticulata (Say,1825)

= *Ophiura reticulata* Say,1825

Azores, Cape Verde, Caribbean, in 225-500 m

Ophiodermatidae Ljungman,1867

Bathypectinura H.L. Clark,1909 (™ *Pectinura lacertosa* Lyman,1883 - Caribbean)

B. heros (Lyman,1879)

= *Pectinura heros* Lyman,1879

= *Bathypectinura elata* (Koehler,1906)

= *Pectinura elata* Koehler,1906

25°2'N, 19°11'W, 34°59'N, 33°1'W, 35°46'N, 8°16'W, in 2055-2865 m

Cryptopelta H.L. Clark,1909 (™ *Ophiopesa aster* Lyman,1879 - S Africa)

C. brevispina (Ludwig,1879)

= *Ophioconis brevispina* Ludwig,1879

Naples, NW Morocco, between littoral - 150 m

Ophiarachnella Ljungman,1872 (™ *Ophiarachna gorgonia* J. Müller & Troschel,1842 - Indian Ocean)

O. semicincta (Studer,18??)

= *Pectinura semicincta* Studer,18??

off Cape Verde, in 68-105 m

Ophioconis Lütken,1869 (™ *Pectinura forbesi* Heller,1863 - Mediterranean)

O. forbesi (Heller,1863)

= *Pectinura Forbesi* Heller,1863

Biscay - Morocco, Azores, Mediterranean, in 20-200 m

O. vivipara Mortensen,19??

Senegal, in 20-30 m

Ophioderma J. Müller & Troschel, 1842 (™ *Asterias longicaudata* Retzius, 1805 - N Atlantic)

O. longicaudata (Retzius, 1805)

= *Asterias longicaudata* Retzius, 1805

= *Ophiura laevis* Lyman, 1865

= *Ophioderma lacertosum* Vatova, 1928

Bretagne (La Rochelle) - Congo, Azores, Madeira, Mediterranean, in 0-70 m

Pectinura Forbes, 1843 (™ *P. vestita* Forbes, 1843 - Mediterranean)

P. vestita Forbes, 1843

Mediterranean (Aegean Sea), in 160 m

ECHINOZOA

ECHINOIDEA Bronn, 1860

PERISCHOECHINOIDEA

= **CIDARIFORMIA** Döderlein, 1906

BOTHRIOCIDAROIDA † Extinct

ECHINOCYSTITOIDA † Extinct

PALAECHINOIDA † Extinct

CIDAROIDA Claus, 1880

Cidaridae Gray, 1825

Cidaris Leske, 1778 (™ *Echinus cidaris* Linnaeus, 1758 - Europe?)

= *Dorocidaris* A. Agassiz, 1869

C. cidaris (Linnaeus, 1758)

= *Echinus cidaris* Linnaeus, 1758

= *Cidaris papillata* Leske, 1778

= *Cidarites hystrix* de Lamarck, 1816

= *Cidaris borealis* Düben & Koren, 1846

= *Dorocidaris abyssicola* A. Agassiz, 1869?

Norway between 59-68°, Faeroe Channel, Rockall, Lousy Bank, W Ireland - Azores & Cape Verde, Mediterranean, St Paul's Rock, in 50-1800 m

C. tribuloides de Lamarck, 1816

Azores

Poriocidaris Mortensen, 1909

P. purpurata (Wyville Thomson, 1875)

= *Porocidaris purpurata* Wyville Thomson, 1875

= *Porocidaris gracilis* Sladen, 1891

off N Hebrides, off SW Ireland, off SW Iceland - Biscay & Canaries, in 750-1800 m

Stereocidaris Pomel, 1883 (™ *Stereocidaris grandis* Döderlein, 1887 - ?)

S. ingolfiana Mortensen, 1903
off Faeroes, off S Iceland, off Portugal, Cape Verde, off Florida, West Indies, in 300-1745 m

Stylocidaris Mortensen, 1909

S. affinis (Philippi, 1845)
= *Cidaris affinis* Philippi, 1845
= *Cidaris Stokesii* L. Agassiz & Desor, 1846-47
Mediterranean, East Atlantic from 33°N - Cape Verde, off Florida, West Indies

Psychocidaridae

* No Atlantic species.

EUECHINOIDEA

DIADEMATOIDEA

ECHINOTHUROIDA Claus, 1880

Echinothuridae Wyville Thomson, 1874

Calveriosoma Mortensen, 1934
* Mortensen 1927 synonymized *Calveria* Thomson, 1872 with *Araeosoma* Mortensen, 1903
= *Calveria* Wyville Thomson, 1872, non Carpenter, Jeffreys & Thomson, 1870

C. fenestratum (Wyville Thomson, 1872)
= *Calveria fenestrata* Wyville Thomson, 1872
= *Araeosoma violaceum* Mortensen, 1903
Rockall, off Arran Island, off W Ireland, Denmark Strait - off Portugal, E North America - Florida, in 145-900 m

C. hystrix (Wyville Thomson, 1872)
= *Calveria hystrix* Wyville Thomson, 1872
= *Asthenosoma Reynoldsii* A. Agassiz, 1880
warm Faeroe Channel, off W Ireland, off SW Iceland - Biscay, Azores, Canaries, in 360-1525 m

Hygrosoma Mortensen, 1903
= *Echinostoma* Pomel, 1883, non Audinet-Serville, 1838, nec Wollaston, 1854, nec Semper, 1868, nec Girschner, 1881, nec Porta, 1907

H. petersii (A. Agassiz, 1880)
= *Phormosoma Petersii* A. Agassiz, 1880
= *Phormosoma luculentum* : Koehler, 1896, non A. Agassiz, 18??
= *Phormosoma uranus* : Koehler, 1898, non Wyville Thomson, 18??
off SW Ireland, Biscay, off Morocco, Azores, E North America - West Indies, in 200-3275 m

H. uranus (Wyville Thomson, 1877)
= *Phormosoma uranus* Wyville Thomson, 1877
off Portugal, off Sahara, in 938-3145 m

Phormosoma Wyville Thomson, 1874

P. placenta Wyville Thomson, 1874
= *Phormosoma Sigsbeii* A. Agassiz, 1883

warm Faeroe Channel, off W Ireland, off S Iceland - Gulf of Guinea, Davis Strait - West Indies, in 275-2500 m

Sperosoma Koehler,1897

S. grimaldii Koehler,1897

warm Faeroe Channel, off SW Ireland, off S Iceland - Azores & Cape Verde, West Indies, in 300-2300 m

Tromikosoma Mortensen,1903 (TM *T. Koehleri* Mortensen,1903 - Davis Strait)

T. koehleri Mortensen,1903

Davis Strait, in 2580 m

DIADEMATOIDA Duncan,1889

Aspidodiadematidae

Aspidodiadema Agassiz,1878

A. jACOBYi A. Agassiz,1883

West Indies, in 170-515 m

Plesiadiadema Pomel,1883

= *Dermatodiadema* A. Agassiz,1898

P. antillarum (A. Agassiz,1883)

= *Aspidodiadema antillarum* A. Agassiz,1883

off S Canaries, off Gibraltar, West Indies, in 280-2860 m

Diadematidae

Centrostephanus Peters,1855

C. longispinus (Philippi,1845)

= *Cidaris (Diadema) longispina* Philippi,1845

Azores, Canaries, Mediterranean, in 50-200 m

Diadema J.E. Gray,1825

D. antillarum Philippi,1845

= *Cidaris (Diadema) antillarum* Philippi,1845

Madeira, Canaries, littoral

PEDINOIDA

Pedinidae Duncan,1891

Caenopedina A. Agassiz,1869 (TM *C. cubensis* A. Agassiz,1869 - Cuba)

C. cubensis A. Agassiz,1869

off Azores, off Canaries, West Indies, in 250-1187 m

ECHINOIDEA

SALENOIDA Delage & Hérouard,1903

Saleniidae

Salenia Gray,1835

S. pattersoni A. Agassiz,1???
West Indies

Salenocidaris A. Agassiz,1869

S. profundi profundi (Duncan,1877)
= *Salenia profundi* Duncan,1877
=? *Salenia hastigera* A. Agassiz,1???
= *Salenia profundi occlusa* Mortensen,1934
= *Salenia hastigera acuminata* Mortensen,1935
Faeroe-Iceland Banks, Biscay, Azores - Tristan d'Acunha, Indo-Pacific, in 180-3380 m

S. profundi brevispina Markov,1988
NE Atlantic

S. varispina A. Agassiz,1869
off Azores, off Gibraltar, West Indies, off Ascension, in 630-3015 m

PHYMOSOMATOIDA

* No Atlantic species.

ARBACIOIDA Gregory,1900

Arbaciidae

Arbacia Gray,1835
= *Echinocidaris* Desmoulins,1835, non Koenig,1820, nec Duncan,1889

A. lixula (Linnaeus,1758)
= *Echinus lixula* Linnaeus,1758
= *Cidaris pustulosa* Leske,1778
= *Echinus aequituberculatus* de Blainville,1825
= *Echinus neapolitanus* Delle Chiaje,1825
Azores, Morocco, Mediterranean, in 0-40 m

Arbaciella Mortensen,1910 (TM *A. elegans* Mortensen,1910 - W Africa)

A. elegans Mortensen,1910
Azores, W Africa north to Cape Blanc, Algeria, Balear Islands, off Sicilia, Latium, sublittoral

Coelopleurus L. Agassiz,1838

C. floridana A. Agassiz,1???
West Indies, in deep water

Habrocidaris A. Agassiz & Clark,1907

H. scutata (A. Agassiz,1880)
R/V "Blake", St. 131, off Santa Cruz, in 580 fms (Agassiz 1880, 1883), R/V "Atlantis", St. 3459, off Cuba, Santa Clara Province, in 500 fms (H.L. Clark 1941), R/V "Vityaz II", St. 158 (8101), Great Meteor Bank, 29° 55'N, 28° 15'W, in 1750 - 1760 m, R/V "Akademik Mstislav Keldish", St. 519, Atlantis Seamount, 34° 26'N, 29° 58'W, in 1230

- 1320 m; St. 521, Atlantis Seamount, 34° 23'N, 29° 57'W, in 1560 - 1900 m (Mironov 1985)

Podocidaris A. Agassiz, 1869

P. sculpta A. Agassiz, 1???
West Indies, in deep water

TEMNOPLEUROIDA Mortensen, 1942

Temnopleuridae Desor, 1855-58

Genocidaris A. Agassiz, 1869 (™ *G. maculata* A. Agassiz, 1869 - ?)

G. maculata A. Agassiz, 1869
= *Temnechinus maculatus* A. Agassiz, 1869
= *Arbacina Pallaryi* Gauthier, 1897
Azores, N Africa - Congo, Mediterranean, E North America - West Indies, in 12-500 m

G. sp. (Mortensen 1927, p. 440)
Canaries, in 30 m

Hypsiechinus Mortensen, 1903 (™ *H. coronatus* Mortensen, 1903 - off Iceland)

H. coronatus Mortensen, 1903
off SW Iceland, Denmark Strait, in 810-1440 m

Trigonocidaris A. Agassiz, 1869

T. albida A. Agassiz, 1???
Biscay, off Azores, off Madeira, West Indies, Indo-Pacific, in 200-900 m

Toxopneustidae

Sphaerechinus Desor, 1856 (emended spelling) (™ *Echinus granularis* de Lamarck, 1816 - ?)
= *Spaerechinus* Desor, 1856

S. granularis (de Lamarck, 1816)
= *Echinus granularis* de Lamarck, 1816
= *Echinus (Toxopneustes) brevispinosus* Risso, 1826
= *Echinus aequituberculatus* Desmoulins, 1???
= *Sphaerechinus roseus* Russo, 1893
Channel Islands - Cape Verde & Gulf of Guinea, Azores, Mediterranean, in 3-100 m

ECHINOIDA Claus, 1876

Echinidae Gray, 1825

Echinus Linnaeus, 1758 (™ *Echinus esculentus* Linnaeus, 1758 - Europe?)

E. acutus de Lamarck, 1816
= *Echinus Flemingii* Forbes, 1841
= *Echinus sardicus* Delle Chiaje, 1841
=? *Echinus norvegicus* Düben & Koren, 1846
=? *Echinus depressus* G.O. Sars, 1871
=? *Echinus rarispinus* G.O. Sars, 1872

=? *Echinus microstoma* Wyville Thomson, 1875

* *Echinus norvegicus* Düben & Koren, 1846, who is very small and depressed compared to a normal *E. acutus*, may perhaps be a species of its own. A population of this taxon is e.g. found in Gullmarsfjorden, below 55 m. *E. depressus*, *E. rarispinus* & *E. microstoma* are synonyms of *E. norvegicus*.

?Belt Sea, Kattegatt-Bohuslän, whole Norwegian coast, Bear Island, Iceland, St Andrews - N Britain, SW Britain - Cape Bojador, Mediterranean, in 20-1280 m

E. affinis Mortensen, 1903

off Rockall Bank, off S Iceland - Azores, off E North America, in 770-2180 m

E. alexandri Danielssen & Koren, 1883

Norwegian slope at 69.5°, off SW Ireland, off S Iceland - Biscay & Azores, in 790-3120 m

E. elegans Düben & Koren, 1846

=? *Echinus Wallisi* A. Agassiz, 1883

Bohuslän, Norway between 58-68° (Tysfjord), Shetlands, off W Scotland & W Ireland, S Iceland - Biscay & Azores, in 50-2000 m

E. esculentus Linnaeus, 1758

[= *Cidaris miliaris* sp. II *hemisphaerica* Klein, 1734]

[= *Echinus subglobosus* Linnaeus, 1745]

= *Echinus sphaera* O.F. Müller, 1776

= *Echinus globiformis* de Lamarck, 1801

= *Echinus Schwartzii* Nilsson & Holst, 1817

= *Echinus subangulosus* de Blainville, 1826

= *Echinus pseudomelo* de Blainville, 1825

= *Echinus aurantiacus* de Blainville, 1825

= *Echinus violaceus* de Blainville, 1825

= *Echinus quinqueangulatus* de Blainville, 1825

= *Echinus quinqueangulosus* de Blainville, 1834

Öresund-Kattegatt-Bohuslän, whole coast of Norway, off Murmansk, around Britain, Iceland - Portugal, in 0- 1200 m

E. esculentus* var. *glacialis D'yakonov, 1923

entrance to Kola Gulf

E. melo Olivi, 1792

* Most often cited as *E. melo* de Lamarck, 1816 but Sherborn has Olivi, 1792 as author. North Rona, Cornwall, 53°1'N, 14°34'W, Portugal, Azores, Mediterranean, in 30-1100 m

E. tenuispinus Norman, 1868

= *E. esculentus* var. *tenuispinus* Norman, 1868

Bergen area - Cape Stadt area, north of Unst, off W Ireland, in 130-200 m

Paracentrotus Mortensen, 1903 (™ *Echinus lividus* de Lamarck, 1816 - ?Mediterr.)

P. lividus (de Lamarck, 1816)

= *Echinus lividus* de Lamarck, 1816

= *Echinus saxatilis* Tiedemann, 1816

= *Echinus vulgaris* de Blainville, 1825

= *Echinus purpureus* Risso, 1826

S & W Ireland, SW England, Engl. Channel - Morocco & Canaries, Azores, Mediterranean, in 0-30 m

Parechinidae Mortensen, 1903

Psammechinus L. Agassiz & Desor,1846 (TM *Echinus miliaris* P.L.S. Müller,1771 - Europe?)
= *Parechinus* Mortensen,1903

P. microtuberculatus (de Blainville,1825) Heller,1868
= *Echinus microtuberculatus* de Blainville,1825
Azores, Portugal - Cape Verde, Mediterranean

P. miliaris (P.L.S. Müller,1771)
= *Echinus miliaris* P.L.S. Müller,1766
= *Parechinus miliaris* : Mortensen,1903
Öresund & Belt Sea-Kattegatt-Bohuslän, Norway N. to 64° (Trondheimsfjord), North Sea, around Britain, Rockall Bank, Iceland - Morocco & Azores, in 0- 100 m

Strongylocentrotidae Gregory,1900

Strongylocentrotus Brandt,1835 (TM *Strongylocentrotus chlorocentrotus* Brandt,1835 - Alaska)
= *Toxopneustes* L. Agassiz,1841

S. droebachiensis (O.F. Müller,1776)
= *Echinus dröbachiensis* O.F. Müller,1776
= *Echinus neglectus* de Lamarck,1816
= *Echinus granularis* Say,1826
= *Strongylocentrotus chlorocentrotus* Brandt,1835 (Cf. Op. 208, ICZN)
= *Toxopneustes pictus* Norman,18??
Öresund & Belt Sea-Kattegatt-Bohuslän, whole Norwegian coast, White Sea, Kara Sea, Chucki Sea, Iceland, E Britain, in 0- 1200 m

S. pallidus (G.O. Sars,1871)
= ?*Strongylocentrotus granularis* (Say,1827)
= *Strongylocentrotus pictus* (Norman,1868)
= *Strongylocentrotus echinoides* A. Agassiz & H.L. Clark,1907
= *Strongylocentrotus sachalinicus* Clark,1912
Bergen - NENorway, Barents Sea - the central part of the Sea of Japan

Echinometridae Gray
* No species in European Seas.

Parasaleniiidae Mortensen,1903
* No species in European Seas.

GNATHOSTOMATA

HOLECTYPOIDA
* No species in European Seas.

CLYPEASTEROIDA Agassiz,1872

CLYPEASTERINA
* No species in European Seas.

LAGANOINA

Fibulariidae Gray,1855

Echinocyamus van Phelsum, 1774 (TM *Spatagus pusillus* O.F. Müller, 1776 - Norway)
(Op. 207, 608, & 626, ICZN)

E. grandiporus Mortensen, 1907
Josephine Bank, off Azores, West Indies, in 150-1385 m

E. macrostomus Mortensen, 1907
off Azores, Cape Verde, in 1600-2286 m

E. pusillus (O.F. Müller, 1776)
= *Spatagus pusillus* O.F. Müller, 1776
= *Echinocyamus angulosus* Leske, 1778
= *Echinus minutus* Gmelin, 1790
= *Fibularia tarentina* de Lamarck, 1816
= *Fibularia equina* Aradas, 1850
= *Echinocyamus parthenopaeus* Costa, 1869
= *Echinocyamus speciosus* Costa, 1869
Öresund & Belt Sea-Kattegatt-Bohuslän, whole Norwegian coast, Iceland, around
Britain, Azores, Cape Bojador, Mediterranean, in 0-1250 m

Laganidae

* No species in European Seas.

SCUTELLINA

* No species in European Seas. Sand dollars and related taxa.

ROTULINA

* One family (Rotulidae) with 2 West African littoral species (in 2 genera).

ATELESTOMATA

CASSIDULOIDA Claus, 1880

Neolampadidae

Neolampas A. Agassiz, 1869 (TM *N. rostellata* A. Agassiz, 1869 - ?)

N. rostellata A. Agassiz, 1869
mouth of Engl. Channel, off Portugal, off Morocco, Mediterranean, West Indies, in
95-1260 m

Echinolampadidae

* Two genera from the West Indian slope may possibly occur off Europe as well.

Conolampas A. Agassiz, 1883, non Pomel, 1883

Echinolampas J.E. Gray, 1825

POURTALESIOIDA

= HOLASTERIDA

= MERIDOSTERNATA

Pourtalesiidae A. Agassiz, 1881

Echinosigra Mortensen, 1907 (TM *Pourtalesia phiale* Wyv. Thomson, 1873 - off NW
Ireland)

E. phiale (Wyville Thomson, 1873) Mortensen, 1907

= *Pourtalesia phiale* Wyville Thomson, 1873
= *Pourtalesia paradoxa* Mortensen, 1905
= *Echinosigra paradoxa* (Mortensen, 1905) Mortensen, 1907
* For synonymy, see Mironov 1974, 1997 and Gage 1984
off SW Iceland, Antarctic, in 1515-3220 m

Pourtalesia A. Agassiz, 1869 (TM *Pourtalesia miranda* A. Agassiz, 1869 - Caribbean, deep water)

P. aff. alcocki Koehler, 1914
= *Pourtalesia miranda* : Auctt., non A. Agassiz, 1869
* The real *P. miranda* is not known from the NE Atlantic, but from the West Indies and the tropical part of the Atlantic according to Mironov 1995
From Reykjanes Ridge to South Africa, in 1460 - 2200 m (after Mironov 1995).

P. jeffreysi Wyville Thomson, 1873
Norwegian Sea basin, off N Iceland, Spitsbergen, Kara Sea, between Shetlands & Faeroes, in 225-2450 m

P. wandeli Mortensen, 1905
off Faeroes - Davis Strait, West Indies, in 1580-3230 m

P. sp. : Mortensen 1927
* probably related to *P. carinata* (according to Mortensen 1927 p. 440), which by Mortensen 1907 was elected as type species of *Helgosigra* Mortensen, 1907
NE Atlantic, deep

Urechinidae

Urechinus A. Agassiz, 1879

U. naresianus A. Agassiz, 1881
off S & W Iceland, off E North America, Mid-Atlantic, in 1450-4480 m

Plexechinidae Mooi & David, 1996

Plexechinus A. Agassiz, 1898

P. hirsutus Mortensen, 1905
off SW Iceland, Denmark Strait, 61°15'N, 9°35'W, in 873-2340 m

Calymnidae

Calymne Wyville Thomson, 1866

C. relict Wyville Thomson, 1877?
R/V 'Akademik Kurchatov', St. 3787, 35° 50'N, 13° 00'W, in 4860 m (Mironov 1985)

SPATANGOIDA Claus, 1876
= AMPHISTERNATA Lovén

Hemiasteridae H.L. Clark, 1917

Hemiaster L. Agassiz & Desor, 1847 (TM *Spatangus bufo* Brongniart, 1822 - Upper Cretaceous fossil)

H. expergitus Lovén, 1874
= *Hemiaster zonatus* A. Agassiz, 1881

= *Hemiaster Mentzii* A. Agassiz, 1883
= *Hemiaster gibbosus* A. Agassiz, 1881
Northern North Sea (off Norwegian coast) in 400 m depth, off S Iceland, off W Ireland - Azores & Cape Verde, Davis Strait - West Indies, in 400-3120 m

Spatangidae Gray, 1825

Spatangus Gray, 1825 (TM *Spatagus purpureus* O.F. Müller, 1776 - Norway) (Op. 209 & 608, ICZN)
= *Prospatangus* Lambert, 1902

S. inermis Mortensen, 1913
Mediterranean

S. purpureus (O.F. Müller, 1776)
= *Spatagus purpureus* O.F. Müller, 1776
= *Spatangus meridionalis* Risso, 1825
= *Spatangus spinosissimus* Desor, 1847
= *Spatangus Reginae* Gray, 1855
?Öresund, Kattegatt-Bohuslän, Norway N. to 72° (Porsanger), around Britain, Rockall Bank, N France - Azores, Mediterranean, from lowest tide level - 900 m

S. raschi Lovén, 1869
= *Spatangus meridionalis* : Norman, 18??, non Risso, 1825
Skagerrak, Norway between 60-69.5°, off Shetlands, Lousy Bank, off W Ireland, Biscay, Azores, in 150-1000 m

Schizasteridae Lambert, 1905

Brisaster Gray, 1855 (TM *Brissus fragilis* Düben & Koren, 1846 - W. Norway)

B. fragilis (Düben & Koren, 1846)
= *Brissus fragilis* Düben & Koren, 1846
= *Schizaster fragilis* (Düben & Koren)
Bohuslän, whole Norwegian coast, N W of Shetlands, Faeroe Channel, S & W of Iceland, Davis Strait - Florida, in 65-1300 m

Schizaster L. Agassiz, 1836 (TM *S. studeri* L. Agassiz, 1840 - ?)

S. canaliferus (de Lamarck, 1816)
= *Spatangus canaliferus* de Lamarck, 1816
* should perhaps be transposed to gen. *Ova* J.E. Gray, 1825 as *O. canalifera* according to Mortensen 1927
Mediterranean, Madeira

Brissidae Gray, 1855

Brissopsis L. Agassiz, in L. Agassiz & Desor, 1847 (TM *Brissus Iyrifer* Forbes, 1841 - Britain?)
= *Kleinia* Gray, 1851
= *Toxobrissus* Desor, 1858

B. atlantica Mortensen, 1907
37°52'N, 9°15'W, E North America - West Indies, in 125-2440 m

B. atlantica Mortensen, 1907 var. *mediterranea* Mortensen, 1913
Mediterranean, in 100-3200 m

B. lyrifera (Forbes,1841)

- = *Brissus lyrifer* Forbes,1841
- = *Schizaster incertus* Aradas,1850
- = *Brissus pulvinatus* Philippi,1845
- = *Brissopsis parma* Val.,18??

Öresund-Kattegatt-Bohuslän, Norway N. to 68°, Iceland, around Britain except the south coast, Azores, Mediterranean, E North America, in 5-365 m

Brissus Leske,1778 (™ *Spatangus Brissus unicolor* Leske,1778 - ?)

B. unicolor (Leske,1778)

- = *Spatangus Brissus unicolor* Leske,1778
- = *Spatangus columbaris* de Lamarck,1816
- = *Brissus Scillae* L. Agassiz,1836
- = *Brissus brissus* : Auctt.

Mediterranean - Gibraltar - Cape Verde, Azores, St Helena, West Indies, in 0-250 m

Plagiobrissus Pomel,1883 (™ *P. grandis* (Gm.) - ?)

- = *Plagionotus* L. Agassiz & Desor,1847, non Mulsant,1842

P. costai (Gasco,1876)

- = *Metalia Costae* Gasco,1876
- = *Rhabdobrissus Perrieri* Bernard,1???

Mediterranean, off Cape Bojador, in 25-782 m

Loveniidae Lambert,1905

Echinocardium Gray,1825 (™ *Echinus cordatus* Pennant,1777 - Britain?) (Op. 209, ICZN)

- = *Amphidetes* L. Agassiz,1836
- = *Amphidotus* : Forbes,1841

E. cordatum (Pennant,1777)

- = *Echinus cordatus* Pennant,1777
- = *Spatangus arcuarius* de Lamarck,1816
- = *Echinocardium Sebae* Gray,18??
- = *Amphidetes Kürtzii* Girard,1852

Öresund & Belt Sea-Kattegatt-Bohuslän, Norway N. to 71° (Porsanger) & North Cape, North Sea, around Britain, Azores, Mediterranean, cosmopolitan, in 0- 230 m

E. fenauxi Péquignat,1963

Mediterranean, in 20-50 m

E. flavescens (O.F. Müller,1776) (Op. 608, ICZN)

- = *Spatagus flavescens* O.F. Müller,1776
- = *Spatangus ovatus* Leske,1778
- = *Amphidotus roseus* Forbes,1841

?Belt Sea, Öresund-Kattegatt-Bohuslän, Norway N. to 71° (Porsanger) or Vadsø, Iceland, around Britain - Azores, Mediterranean, in 5-325 m

E. mediterraneum (Forbes,1844)

- = *Amphidetes mediterraneus* Forbes,1844
 - = *Echinocardium gibbosus* L. Agassiz & Desor,1847
- Biscay - Mediterranean

E. mortenseni Thiéry,1909

- =? *Echinocardium laevigaster* A. Agassiz,18??
- =? *Echinocardium pennatifidum* : Koehler,1898, non Norman,1868

= *Echinocardium intermedium* Mortensen, 1907
Mediterranean

E. pennatifidum Norman, 1868

= *Echinocardium gibbosus* : Barrett, 1857 non L. Agassiz & Desor, 1847
Kattegatt-Bohuslän, Norway between 58° (Langesundfjord) to 59.5° (Haugesund),
around Britain (but perhaps not south of Durham along the east coast), Porcupine Bank,
in 0- 260 m

Aeropsidae

Aceste Wyville Thomson, 1877

= *Acestina* Lambert & Thiéry, 1924 (to avoid pseudohomonymy with *Acesta*
Adams, 1858)

A. bellidifera Wyville Thomson, 1877

off Canaries, off Azores, in 1116-1360 m

Aeropsis Mortensen, 1907 (TM *Aerope rostrata* Wyville Thomson, 1877 - Cape Cod /
Cape Hatteras area)

= *Aerope* Jeffreys, ex Wyville Thomson MS, 1876, non Desmarest ex Leach MS, 1823,
nec White, 1847, nec Martens ex Albers MS, 1860

A. rostrata (Wyville Thomson, 1877) Mortensen, 1907

= *Aerope rostrata* Wyville Thomson, 1877

Rockall Trough, ?Biscay, ?off Portugal, Davis Strait, off E North America, in 2230-
3150 m

Pericosmidae

* No Atlantic species.

Palaeostomatidae

* No Atlantic species.

Asterostomatidae

* Polyphyletic group.

Palaeotropus Lovén 1872

* Correct family? Palaeopneustidae in Mortensen 1927

P. josephinae Lovén, 18??

= *Palaeobrissus Hilgardi* A. Agassiz, 1???

= *Palaeotropus hironellei* Koehler, 1???

Biscay, off Azores, West Indies, in 500-1600 m

Peripatagus Koehler, 1896

* Correct family? Palaeopneustidae in Mortensen 1927

P. cinctus Koehler, 1???

off Azores, in 880-1494 m

Toxasteridae

* No Atlantic species.

HOLOTHUROIDEA

DENDROCHIROTACEA Grube,1840 in Pawson & Fell,1965

DENDROCHIROTIDA Grube,1840

Psolidae Ludwig,1894

Psolidium Ludwig,1886

P. complanatum Cherbonnier,1969
Coast of Galicia (Spain), Sicilian Channel, in 274-1045

Psolus Jaeger,1833 (TM *Holothuria phantapus* Strussenfelt,1765 - Öresund)
= *Psolus* Oken,1815 (n. rej.; publ. in a work unaccessible for nomenclatorial purposes)
= *Cuvieria* Cuvier, ex Peron MS,1817, non LeSueur & Petit,1807, nec Leach,1814

P. fabricii (Düben & Koren,1846)
= *Cuvieria fabricii* Düben & Koren,1846
?Arcic Seas north of N Iceland?, Davis Strait - Massachusetts

P. hypsinotus Heding,1942
* The author himself is suggesting that this may be the young of another species.
W Greenland, in 350-1096 m

P. nummularis R. Perrier,1899
31°31'N, 12°47'W, in 1050 m

P. operculatus (Pourtalès,1868)
= *Cuvieria operculata* Pourtalès,1868
?off Spitsbergen?, off Florida

P. phantapus (Strussenfelt,1765) Jaeger,1833
= *Holothuria phantapus* Strussenfelt,1765
= *Psolus laevigatus* Ayres,1851
= *Psolus granulatus* Ayres,1851
= *Psolus regalis* Verrill,1866
Öresund & Belt Seas-Kattegatt-Bohuslän, whole coast of Norway, Spitsbergen, White Sea, E & N Novaja Zemlja, Iceland, Yorkshire - Shetlands - W Scotland & N Ireland, E & W Greenland, Davis Strait, E North America south to 42°N, from (1) 20-380 m

P. pourtalesii Théel,1886
off W Faeroes, Rockall Trough, off S Iceland, Davis Strait, West Indies, in 1096-2051 m

P. squamatus (O.F. Müller,1776) Lütken,1857
= *Holothuria squamata* O.F. Müller,1776
= *Psolus valvatus* Östergren,1904
Vestfold - N Finnmark, Spitsbergen, Bear Island, Shetlands, Faeroes, between Faeroes & Iceland, off W Ireland, 51°20'N, 11°35'W, off Eagle Island, in 0-1000 m

P. tessellatus Koehler,1896
Biscay, in 1500 m

Phyllophoridae Östergren,1907

Ekmania Hansen & McKenzie,1991 (TM *Orcula barthii* Troschel,1846 - Labrador)
= *Orcula* Troschel,1846, non Held,1837, nec Weisse,1846

E. barthii (Troschel,1846)

= *Orcula Barthii* Troschel, 1846
= *Thyonidium pellucidum* : Düben & Koren, 1846, non *Holothuria pellucida* Vahl, 1808
= *Orcula luminosa* Lampert, 1885
Öresund & Belt Sea -Kattegatt, Norway from Trondheimsfjorden and northwards,
Faeroes, Iceland, Spitsbergen, Barents Sea, Novaja Zemlja, Kara Sea, Siberian Arctic, E
& W Greenland

Euthyonidiella Heding & Panning, 1954 (TM*E. kyushuensis* Heding & Panning, 1954 -
?Japan)

E. atlantica (Ludwig & Heding, 1935)
= *Pseudocucumis atlantica* Ludwig & Heding, 1935
Atlantic

Neocucumis Deichmann, 1944 (TM*Cucumaria Marioni* von Marenzeller, 1878 -
Mediterranean)

N. atlantica (Ludwig & Heding, 1935)
?

N. marioni (von Marenzeller, 1878)
= *Cucumaria Marioni* von Marenzeller, 1878
= *Pseudocucumis* Ludwig, 1874 *marioni* (von Marenzeller, 1878)
Mediterranean

Neopentadactyla Deichmann, 1944 (TM*Pseudocucumis mixta* Östergren, 1898 - W.
Norway)

N. mixta (Östergren, 1898) Deichmann, 1944
= *Pseudocucumis mixta* Östergren, 1898
= *Pseudocucumis cuenoti* Koehler & Vaney, 1905
Bohuslän, Norway between 62.5-69°, Faeroes, W Ireland, Clyde Sea area, Engl.
Channel, W France, in 30-300 m

Phyllophorus Grube, 1840 (TM*Phyllophorus urna* Grube, 1840 - Mediterranean)
= *Hemicrepis* J. Müller, 1853
= *Euphyllophorus* Deichmann, 1937

P. drachi Cherbonnier & Guille, 1968
Mediterranean, in 90 m

P. (Phyllophorus) pedinaequalis Cherbonnier, 1969
Bay of Biscaye, Mauretiana, in 225-700 m

P. (Phyllophorus) urna Grube, 1840
= *Holothuria penicillus* Delle Chiaje, 1828
= *Psolus granulatus* Grube, 1840
W Mediterranean & Adriatic

Thyonidium Düben & Koren, 1846 (TM*Cucumaria communis* Forbes, 1841 - Scotland)
= *Duasmodyctyla* Ayres, 1854 (TM*Duasmodyctyla productum* Ayres, 1856 - New
England?)

* preserved specimens of the two species are very difficult to separate, so the exact
distribution below may be partly wrong

T. hyalinum (Forbes, 1841)
= *Holothuria pellucida* : Fleming, 1828, non Vahl, 1806

Bohuslän, whole Norwegian coast, Northumberland - Shetlands - SW Ireland, in 10-380 m

T. drummondii (Thompson,1840)

= *Holothuria Drummondii* Thompson,1840

= *Cucumaria communis* Forbes,1841

= *Thyone portlocki* Forbes,1841

= *Thyonidium Dübeni* Norman,1869

= *Cucumaria nobilis* Ludwig,1874

= *Cucumaria perspicua* Ludwig,1874

Öresund - Bohuslän - North Sea - Finnmark, Shetlands, Faeroes, E & W Britain, Belgium, Plymouth, in 5-923 m

Cucumariidae Ludwig,1894

Abyssocucumis Heding,1942 (TM *Cucumaria abyssorum* Théel,1886 - ?)

A. abyssorum (Théel,1886)

= *Cucumaria abyssorum* Théel,1886

= *Cucumaria sluiteri* Ohshima,1915

= *Staurocucumis ingolfi* Clark & Deichmann,1936

= *Cucumaria abyssorum* Auctt: non Théel,1886

Rockall Trough, off Azores, 45°26'N, 25°45'W, Davis Strait, in 2870-3229 m

Aslia Rowe,1970 (TM *Cucumaria lefevrei* Barrois,1882 - ?)

= *Ludwigia* Reiffen,1901 (p.p.), non Bayle,1878

A. lefevrei (Barrois,1882)

= *Cucumaria lefevrei* Barrois,1882

= *Holothuria montagui* Fleming,1828 (p.p.)

= *Cucumaria Normani* Allen & Pace,1904

W Ireland, Plymouth, W France, from the shore to 20 m

Cucumaria Blainville,1830 (TM *Holothuria frondosa* Gunnerus,1770 - Trondheim)

* Several of the species below possibly belong in other genera.

C. arcuata (Hérouard,1921)

= *Psolidium arcuatum* Hérouard,1921

32°N, 17°W, in 1700-1968 m

C.? calcigera (Stimpson,18??)

SW Greenland, Davis Strait, E North America

C. compressa (R. Perrier,1898)

= *Ocnus compressus* R. Perrier,1898

Biscay, in 627 m

C. frondosa (Gunnerus,1767)

= *Holothuria frondosa* Gunnerus,1767

= *Holothuria pentactes* Linnaeus,1767

= *Holothuria fucicola* Forbes & Goodsir,1839

= *Holothuria grandis* Forbes & Goodsir,1839

= *Cucumaria assimilis* Düben & Koren,1846

entrance of Skagerrak (specimens taken in Oslofjord in 1867), Norway S. to 60°, Spitsbergen, Kara Sea, Faeroes, around (except S) Iceland, Arctic Seas, Shetlands, Orkneys, around N Scotland - Clyde Sea, NE America south to Massachusetts, in 0-200 m

C. grubei von Marenzeller,1874
= *Cucumaria dicquemarii* M. Sars,1857
= *Pseudocnus grubei* : Panning,1949
Mediterranean

C. paraglacialis Heding,1942
W Greenland, in 128 m

Havelockia Pearson,1903 (TM *H. herdmani* Pearson,1903 - ?)

H. inermis (Heller,1868)
= *Thyone inermis* Heller,1868
= *Thyone elegans* Norman,1869
= *Uroxia aurantiaca* Costa,1869
Shetlands, Irish Sea, Biscay, Azores, Mediterranean, in 30-180 m

Neocnus Cherbonnier,1972

N. incubans Cherbonnier,1972
Canary Islands, Mediterranean, in 1-2 m

Ocnus Forbes & Goodsir, in Forbes,1841 (TM *Ocnus brunneus* Forbes & Goodsir, in Forbes,1841 - Britain)
= *Ludwigia* Reiffen,1901 (p.p.), non Bayle,1878
= *Pentacucumis* Deichmann,1957

O. lacteus (Forbes & Goodsir,1839)
= *Holothuria lactea* Forbes & Goodsir,1839
= *Cucumaria mosterensis* Grieg,1889
Kattegatt-Bohuslän, Norway N. to 64° (Trondheimsfjord), Faeroes & off SW Faeroes, S Iceland, Durham & Northumberland - Shetlands - W & S Britain - S Bretagne, Morocco, Senegal, Adriatic, in 2-655 m

O. petiti (Cherbonnier,1958)
= *Ludwigia petiti* Cherbonnier,1958
* Correct genus?
Mediterranean France, littoral

O. planci (Brandt,1835)
= *Cladodactyla Planci* Brandt,1835
=? *Holothuria brunneus* (W. Thompson,1840, ex Forbes MS), non Chamisso & Eysenhardt,1821
=? *Ocnus brunneus* Forbes & Goodsir, in Forbes,1841
SW North Sea, Belgium, Clyde Sea - S England, Portugal, off Senegal, Mediterranean, in 2-80 (350) m

O. glacialis (Ljungman,1879)
= *Cucumaria glacialis* Ljungman,1879
Spitsbergen, the coast east of the White Sea - all Siberian Arctic, in 20-170 m

O. koellikeri (Semper,1868)
= *Cucumaria köllikeri* Semper,1868
= *Pseudocnus köllikeri* : Panning,1949
= *Pseudocnus dubiosus* (Semper) *köllikeri* : Panning,1962
* Correct genus?
Portugal - Senegal - Mauretania, Mediterranean

O. syracusanus (Grube,1840) Panning,1949

= *Cladodactyla syracusana* Grube,1840
= *Cucumaria syracusana* : Auctt.
* Correct genus?
Mediterranean

Panningia Cherbonnier,1958 (TM *Panningia curvata* Cherbonnier,1958 - ?)
= *Paracucumaria* : Auctt., non Panning,1949

?***P. hyndmanni*** (W. Thompson,1840)
= *Cucumaria hyndmanni* W. Thompson,1840
* Jensenius Madsen & Hansen 1994 are using the genus name *Cucumaria* for this species, however admitting that it probably not should be placed there, but arguing that its tentacles and calcareous ring also is a bit different from the type species of *Panningia*
Kattegatt-Bohuslän, Norway N. to 64° (southern Nordland), Faeroes, St Andrews - Shetlands - W & S Britain, Rockall Bank, N Spain, Mediterranean, in 15-1150 m

?***P. kirschbergi*** (Heller,1868)
= *Cucumaria kirschbergi* Heller,1868
= *Ocnus? kirschbergi* : von Marenzeller,1874
= *Stereoderma kirschbergi* : Panning,1949
Mediterranean, in 50-80 m

Paracucumaria Panning,1949 (TM *Cucumaria mauritanica* Hérouard,1929 NW. coast of Africa)

P. mauritanica (Hérouard,1929)
= *Cucumaria mauritanica* Hérouard,1929
NW Africa

P. thalassae Cherbonnier,1969
47°51'5N, 08°05'W, in 900 m

Pawsonia Rowe,1970 (TM *Cucumaria saxicola* Brady & Robertson,1871 - ?)

P. saxicola (Brady & Robertson,1871)
= *Cucumaria saxicola* Brady & Robertson,1871
= *Holothuria montagui* Fleming,1828 (p.p.)
= *Colochirus Lacazei* Hérouard,1???
W Ireland, SW England, W France, Azores, Mediterranean France, Balear Islands, from the shore - 130 m

Pentamera Ayres,1852 (TM *Pentamera pulcherrima* Ayres,1852 - ?)

P. calcigera (Stimpson,1851)
= *Pentacta calcigera* Stimpson,1851
= *Cucumaria koreni* Lütken,1857
White Sea - Kara Sea, S & W Greenland, New England

Pseudothyone Panning,1949 (TM *Thyone raphanus* Düben & Koren,1846 - W. Norway)

P. furnesti Cherbonnier,1969
Coast of Galicia (Spain), in 464-1045 m

P. raphanus (Düben & Koren,1846)
= *Thyone raphanus* Düben & Koren,1846
= *Thyone poucheti* Barrois,1882

Bohuslän, Arendal - Lofoten, S Iceland, Faeroes, Northumberland - Shetlands - W Britain - Plymouth - Mediterranean & NW Morocco, in 10-400 (1040) m

P. sculponea Cherbonnier, 1958
S Spain, Adriatic

P. serrifera (Östergren, 1898) Jensenius Madsen & Hansen, 1994
= *Thyone serrifera* Östergren, 1898
Trondheimsfjord, off SW Faeroes, Biscay, in 200-1000 m

Stereoderma Ayres, 1851

S. incerta Cherbonnier, 1969
Bay of Biscay, Galician coast (Spain), in 455-850 m

Thyone Jaeger, 1833 (TM *Holothuria fusus* O.F. Müller, 1776 - Dröbak)
= *Thyone* Oken, 1815 (n. rej.; publ. in a work not accessible for nomenclatorial purposes)

T. cherbonnieri Reys, 1960
French & Latium Mediterranean, Adriatic, in 6-35 m

T. fusus (O.F. Müller, 1776)
= *Holothuria fusus* O.F. Müller, 1776
= *Holothuria papillosa* Abildgaard, 1789
= *Thyone subvillosa* Hérouard, 1890
=? *Thyone flexus* Hodge, 1867
Kattegatt-Bohuslän, Norway N. to W Finnmark, North Sea, Faeroes, around Britain, in 10-200 (400) m

T. fusus mediterranea Madsen, 1941
Mediterranean, ?Canaries

T. gadeana R. Perrier, 1898
= *T. wahrbergi* Madsen, 1941
Bohuslän, Norway N. to Trondheimsfjorden, off W Ireland, NW France, N Spain, Gibraltar area, NW Italy, in 20-1045 m

T. roscovita Hérouard, 1890
Ireland, W British Isles, W France, from littoral - 40 m

Trachythyone Studer, 1876 (TM *Trachythyone muricata* Studer, 1876 - Antarctic)
= *Leptopentacta* : Auctt., non H.L. Clark, 1938 (TM *Leptopentacta grisea* H.L. Clark, 1938 - Australia?)

T. elongata (Düben & Koren, 1846) Panning, 1949
= *Cucumaria elongata* Düben & Koren, 1846
= *Cucumaria pentactes* : Forbes, 1841 non (Linnaeus, 1767)
=? *Cucumaria cucumis* (Risso, 18??)
Belt Sea & Öresund-Kattegatt-Bohuslän, Norway N. to 64° (Southern Nordland), Helgoland & S North Sea, off SW Faeroes, Durham & Northumberland - Shetlands - W Britain - Plymouth - Morocco & Mediterranean, W African coast at 20°N, in 5-80 (146) m

T. tergestina (M. Sars, 1857) Panning, 1949
= *Cucumaria tergestina* M. Sars, 1857
= *Cucumaria incurvata* Perrier, 1902
Mediterranean, in 14-170 m

Sclerodactylidae

* No species in European waters.

Placothuriidae

* No Atlantic species.

Paracucumidae

* Just accomodating one Antarctic species.

Heterothyonidae

* No Atlantic species.

DACTYLOCHIROTIDA Pawson & Fell,1965

Ypsilothuriidae Heding,1942

Echinocucumis M. Sars,1859 (TM *Echinocucumis typica* M. Sars,1859 - W. Norway)

E. hispida (Barrett,1857)

= *Eupyrigus hispidus* Barrett,1857

= *Echinocucumis typica* M. Sars,1859

= *Cucumaria hispida* (Barrett,1857)

Central Skagerrak, Norway between Arendal area - N Finnmark, off SW Faeroes, off S & W Iceland, off W Ireland, Biscay, in (50) 200-1330 m

Ypsilothuria E. Perrier,1886

= *Sphaerothuria* Ludwig,1893

Y. bitentaculata (Ludwig,1893) *attenuata* E. Perrier,1886

off S Iceland, Davis Strait, off Senegal, Mediterranean, in 200-4000 m

Y. talismani talismani E. Perrier,1886

=? *Echinocucumis hispida* (Barrett,1857) var. *abyssalis* Koehler,1896

off W Faeroes, off S & SW Iceland, Biscay - Senegal, Davis Strait, ?off Cape Verde?, in 557-2330 m

Vaneyellidae

* No Atlantic species.

Rhopalodinidae

* No species in European Seas.

ASPIDOCHIROTACEA Grube,1840 in Pawson & Fell,1965

ASPIDOCHIROTIDA Grube,1840

Stichopodidae Haeckel,1896

Eostichopus Cutress & Miller,1982 (TM *E. arnesoni* Cutress & Miller,1982 - Puerto Rico)

E. regalis (Cuvier,1817)

= *Holothuria regalis* Cuvier,1817

= *Stichopus regalis* (Cuvier,1817)

= *Holothuria Columnae* Cuvier,1817

= *Holothuria triquetra* Delle Chiaje,1841

off W Ireland, Biscay, Canaries, Mediterranean, in 5-400 m

W. Britain

Parastichopus H.L. Clark,1922 (TM *Holothuria tremula* Gunnerus,1767 - Trondheim)

P. tremulus (Gunnerus,1767)

= *Holothuria tremula* Gunnerus,1767

= *Holothuria elegans* O.F. Müller,1781

=? *Stichopus griegi* Östergren,1896

= *Stichopus tremulus* (Gunnerus)

= *Holothuria ecalcareia* M. Sars,1859

= *Stichopus richardi* Hérouard,1896

* Jensenius Madsen & Hansen 1994 were referring this species to *Stichopus*

Brandt,1835, because they thought that *Parastichopus* is a doubtful genus.

S Kattegatt-Bohuslän-Skagerrak, whole coast of Norway, Faeroes, S Iceland, off W & N Ireland, Rockall, Lousy Banks, Biscay - Canaries, in 20-1900 m

Stichopus Brandt,1835 (TM *S. chloronotus* Brandt,1835 - ?)

* No species in the area if *Eostichopus* and *Parastichopus* are considered as separate.

Synallactidae Ludwig,1894

= Gephyrothuridae Koehler & Vaney,1905

Bathyplotes Östergren. 1896 (TM *Holothuria natans* M. Sars,1868 - Lofoten)

B. bigelowi Deichmann,1940

West Indies

B. natans (M. Sars,1868) Östergren,1896

= *Holothuria natans* M. Sars,1868

= *Stichopus tizardi* Theel,1882

= *Bathyplotes fallax* Östergren,1896

= *Bathyplotes reptans* R. Perrier,1902

= *Bathyplotes heterostylides* Heding,1942

Norway between 60-68° (Arendal - Troms areas), Faeroe Channel, off W & S Iceland, off W Ireland - Cape Verde, West Indies, 30°3'N, 14°2'W, in 200-2212 m

B. pourtalesii (Théel,1886)

= *Stichopus Pourtalesii* Théel,1886

= *B. bipartitus* Hérouard,1923

Canaries, off Cape Verde, West Indies, in 134-1477 m

Benthothuria R. Perrier,1898

B. funebris R. Perrier,1898

=? *Benthothuria valdiviae* Heding,1940

Rockall Trough, off Morocco, Davis Strait, in 782-2700 m

Gephyrothuria Koehler & Vaney,1905 (TM *G. alcocki* Koehler & Vaney,1905 - Indian Ocean)

= *Himasthlephora* H.L. Clark,1907

G. europeensis Hérouard,1923

* most probably a young *Pseudostichopus* according to information from Dr. C. Massin (in litt.)

43°45.5'N, 9°41'W, in 2320 m

Mesothuria Ludwig,1894 (TM *Mesothuria multipes* Ludwig,1894 - W. Atlantic?)

= *Zygothuria* Perrier,1898

= *Allantis* Hérouard,1902

M. bifurcata Hérouard,1906
off SW Iceland, Pacific Antarctic, in 2337 m

M. candelabra Hérouard,1923
Biscay, in 4870 m

M. cathedralis Heding,1940
off SW Iceland, off S Canaries, in 2137 m

M. connectens (R. Perrier,1898)
= *Zygothuria connectens* R. Perrier,1898
off Canaries, in 1975-2518 m

M. expectans R. Perrier,1898
* may be the young of *Paroriza prohoi* Hérouard, according to Mortensen 1927.
44°20'N, 19°31'W, in 4255 m

M. intestinalis (Ascanius,1805) Östergren,1896
= *Holothuria intestinalis* Ascanius,1805
= *Fistularia mollis* M. Sars,1835
= *Thyonidium scabrum* M. Sars,1868
Bohuslän, Whole coast of Norway, Murmansk, Faeroes, SW Iceland, W Britain, SW Ireland, Biscay, off Gibraltar, Azores, Mediterranean, in 20-1450 m

M. lactea (Théel,1886)
= *Holothuria lactea* Théel,1886
= *Zygothuria lactea* (Théel,1886)
=? *Holothuria aspera* Bell,1892
off S Iceland, off SW Ireland, Biscay - Azores & Cape Verde, Indopacific, in 700-2100 m

M. maroccana Perrier,1902
off S & SW Iceland, between Spain & Azores, off Morocco, West India, in 1500-3120 m

M. murrayi (Théel,1886) var. *grandipes* Hérouard,1???
between Azores & Madeira, in 1500-2180 m

M. roulei (Koehler,1896)
= *Holothuria Roulei* Koehler,1896
* Heding 1942 is moving this species out from synonymity with *M. verrilli* (Théel)
Biscay, in 1300 m

M. rugosa Hérouard,1912
off Cape Verde, in 3890 m

M. triradiata Heding,1942
24°35'N, 17°4'W, in 2480 m

M. verrilli (Théel,1886)
= *Holothuria verrilli* Théel,1886
off SW Ireland, Biscay - Azores, Canaries, Mediterranean, West Indies, in 280-2520 m

Molpadiodemas Heding,1935 (TM *M. acaudum* Heding,1935 - Davis Strait)
* Heding 1942 insists in keeping this genus, but is admitting that it's type species may be a synonym of *Pseudostichopus atlanticus* R. Perrier.

M. acaudum Heding,1935
Davis Strait, in 3230 m

Paelopatides Théel,1886
= *Pelopatides* : Auctt.

P. atlantica Hérouard,1902
off Azores, in 4020 m

P. grisea R. Perrier,1902
* probably a synonym of the Caribbean *P. agassizi* Théel, according to Deichmann (in Mortensen 1927). However, Billet, Hansen & Huggett 1984 are of the opinion that the W Atlantic *P. gigantea* (Pawson,1976) probably is a synonym of *P. grisea*.
* Capable of swimming.
off Ireland, off Canaries, between Portugal & Azores, off Mauretania, in 1918-4060 m

Paroriza Hérouard,1902

P. pallens (Koehler,1896)
= *Stichopus pallens* Koehler,1896
Porcupine Seabight, Biscay, Mauritania, in 1300 m

P. prohoi Hérouard,1902
Biscay, off Azores, in 4360-4380 m

Plicastichopus Heding,1940

P. ingolfi Heding,1942
off SW Iceland, off SE Greenland, in 2137-3192 m

Pseudostichopus Théel,1882 (™ *P. mollis* Théel,1882 - ?)

P. atlanticus R. Perrier,1898
42°19'N, 23°36'W, in 4060 m

P. depressus Hérouard,1902
39°54'N, 20°17'W, in 4360 m

P. globigerinae Hérouard,1902
Biscay, in 4380 m

P. lapidus Hérouard,1???
off Azores, in 4020 m

P. marenzelleri Hérouard,1902
36°54'N, 20°46'W, in 4400 m

P. occultatus von Marenzeller,1893
off Cape Finisterre, Mediterranean, in 232-1445 m

P. villosus Théel,1886
37°16'N, 20°11'W, cosmopolitan, in 2600-5300 m

Scotothuria Hansen,1978 (™ *S. herringi* Hansen,1978 - NE Atlantic)
=? *Dendrothuria* Koehler & Vaney,1905 (™ *D. similis* Koehler & Vaney,1905 - Bay of Bengal)

S. herringi Hansen,1978
=? *Dendrothuria similis* Koehler & Vaney,1905
* Pelagic
between Biscay & Azores, off W Africa, in 1250-4980 m

Synallactes Ludwig,1893

S. crucifera R. Perrier,1898
30°3'N, 14°2'W, in 2212 m

Holothuriidae Ludwig,1894

Gastrothuria Perrier,1899

G. limbata R. Perrier,1899
* according to Östergren (in Mortensen 1927) this is probably only a young
Eostichopus regalis (Cuvier).
Biscay, in 564 m

Holothuria Linnaeus,1767 (TM*H. tubulosa* Gmelin,1788 - ?)

H. (Roweothuria* Thandar,1988) *arguinensis Koehler & Vaney,1906
Morocco, North Mauretiana, in 26-52 m

H. forskali Delle Chiaje,1823
= *Holothuria catanensis* Grube,1840
= *Holothuria nigra* Peach,1845
= *Stichopus selenkae* Barrois,1882
W Ireland & W Britain - Portugal, Azores, Canaries, Mediterranean, in 1-100 m

H. helleri von Marenzeller,1878
= *Holothuria affinis* : Heller,1868, non Brandt,1835
Mediterranean

H. impatiens (Forskål,1775)
= *Fistularia impatiens* Forskål,1775
= *Holothuria botellus* Selenka,1867
Mediterranean

H. lentiginosa von Marenzeller,1892
Azores

H. mammata Grube,1840
Mediterranean, below 30 m

H. mexicana Ludwig,1875
Azores

H. polii Delle Chiaje,1823
Biscay - Canaries, Mediterranean

H. sanctori Delle Chiaje,1823
= *Holothuria farcimen* Selenka,1867
Arcachon, Azores, Mediterranean, Ascension

H. stellati Delle Chiaje,1823
Mediterranean

H. tubulosa Gmelin,1788
= *Holothuria Columnae* : Delle Chiaje,1823, non Cuvier,1817
= *Holothuria maxima* Delle Chiaje,1823
= *Holothuria pentagnae* Delle Chiaje,1823
= *Holothuria Cavolinii* Delle Chiaje,1841
Biscay - Gibraltar, Azores, Mediterranean, in 0-100 m

ELASIPODIDA Théel,1882

Elpidiidae Theel,1879

Achlyonice Théel,1879

A. myriamae Gebruk,1997
Biscay

Amperima Pawson,1965
= *Periamma* R. Perrier,1896, non Gistel,1848

A. furcata (Hérouard,1899)
= *Kolga furcata* Hérouard,1899
Biscay, off Azores, in 1846-2320 m

A. rosea (R. Perrier,1896)
= *Periamma rosea* R. Perrier,1896
between Spain & Azores, in 4060-5005 m

Ellipinion Hérouard,1926

E. delagei (Hérouard,1896)
= *Scotoplanes delagei* Hérouard,1896
Azores, Cape Verde, in 1165-2478 m

Elpidia Théel,1876 (TM *Elpidia glacialis* Théel,1876 - off E Novaja Zemlja)

E. glacialis Théel,1876
Porsanger, Barents Sea, Norwegian Sea basin (off E & NE Iceland), Kara Sea, Davis Strait, in 70-2800 m

E. echinata (R. Perrier,1896)
= *Tutela echinata* R. Perrier,1896
off Morocco, in 2210-2300 m

Irpa Danielssen & Koren,1878 (TM *Irpa abyssicola* Danielssen & Koren,1878 - Norw. Sea)

I. abyssicola Danielssen & Koren,1878
Norwegian Sea (E of the Faeroes) basin, in 1977 m

Kolga Danielssen & Koren,1879 (TM *Kolga hyalina* Danielssen & Koren,1879 - Norw. Sea)

K. hyalina Danielssen & Koren,1879
= *Elpidia nana* Théel,1879
Norwegian Sea basin, off W & SW Ireland, Davis Strait, off S Greenland, off Nova Scotia, in 1484-4850 m

Peniagone Théel,1882

P. azorica von Marenzeller, 1893
off S & SW Iceland, Biscay, off Azores, in 2345-4020 m

P. diaphana (Théel, 1882)
= *Scotoanassa translucida* Hérouard, 1899
* Pelagic. *Scotoanassa translucida* Hérouard was synonymized by Hansen 1975 and Gebruk 1990
off SW Ireland, between Biscay & Azores, off N Cape Verde, cosmopolitan, in 1500-4790 m

P. gracilis (Ludwig, 1894)
58°34'N, 34°53'W, in 2930-2950 (see Gebruk 1990)

P. islandica Deichmann, 1930
off SW Iceland, in 2043 m

P. porcella R. Perrier, 1900
42°19'N, 25°36'W, in 4060 m

P. purpurea (Théel, 1882)
= *Peniagone vexillum* R. Perrier, 1900
= *Peniagone ferruginea* Grieg, 1921
* Gebruk 1990 synonymized *P. ferruginea* Grieg and *P. vexillum* R. Perrier
28°54'N, 24°14'W, 42°19'N, 25°36'W, in 2800-4060 m

P. wyvillii Théel, 1882
* Gebruk 1990 considered this species not valid
34°59'N, 33°1'W, in 4438 m

Penilpidia Gebruk, 1988 (TM *Kolga ludwigi* von Marenzeller, 1893 - ?)

P. ludwigi (von Marenzeller, 1893)
= *Kolga ludwigi* von Marenzeller, 1893
Aegean Sea & E Mediterranean, in 755-4766 m (see Fiege & Liao 1996)

Psychroplanes Gebruk, 1988 (TM *Elpidia rigida* Théel, 1882 - ?)

P. obsoleta (Hérouard, 1899)
= *Kolga obsoleta* Hérouard, 1899
= *Peniagone obsoleta* (Hérouard, 1899)
= *Kolga foliacea* Hérouard, 1912
= *Peniagone foliacea* (Hérouard, 1912)
* Gebruk 1990 synonymized *Peniagone foliacea* (Hérouard)
off Azores, Spain, 37°16'N, 22°32'W, in 4275-4360 m

Deimatidae sensu Ekman, 1926

Deima Théel, 1879

D. validum validum Théel, 1879
= *Deima blakei* Théel, 1886
= *Deima atlanticum* Hérouard, 1898
* Hansen 1975 synonymized *Deima blakei* Théel and *Deima atlanticum* Hérouard
43°21'N, 10°2'W, 39°54'N, 20°27'W, West Indies, in 2779-4360 m

Oneirophanta Théel, 1879

O. mutabilis Théel,1879

= *Oneirophanta alternata* R. Perrier,1900

* Hansen 1975 synonymized *Oneirophanta alternata* R. Perrier
Biscay, between Portugal & Azores, in 1800-5005 m

Laetmogonidae Ekman,1926

Benthogone Koehler,1895

B. rosea Koehler,1896

= *Benthogone quadrilineata* Heding,1940

* Hansen 1975 synonymized *Benthogone quadrilineata* Heding
off SW Ireland, Biscay, Azores, off Gibraltar & off N Africa - Cape Verde, in 1000-
2480 m

Laetmogone Théel,1879 (™ *Laetmogone wyvillethomsoni* Théel,1879 - ?Indian
Ocean)

= *Cryodora* Théel,1879

L. violacea Théel,1879

= *Cryodora spongiosa* Théel,1879

= *Laetmogone wyvillethomsoni* Théel,1879

= *Laetmogone jourdainii* Petit,1885

= *Laetmogone brongniarti* E. Perrier,1886

off S Faeroes, off SW & NW Iceland, off SW Ireland, Davis Strait - Biscay & Azores,
Portugal - off Cape Verde, in 225-1800 m

Pannychia Théel,1882

= *Laetmophasma* Ludwig,1894

P. glutinosa Hérouard,1902

* according to Deichmann (in Mortensen 1927) is this a young *Benthodytes lingua*
Perrier.
off Azores, in 2102 m

P.? sp.

= *Leptophasma?* sp.

* badly preserved specimen
off Azores, in 1385 m

Psychropotidae Théel,1882

* Including active swimmers.

Benthodytes Théel,1882

B. janthina von Marenzeller,1893

= *Benthodytes lingua* R. Perrier,1896

* Pelagic as juvenile. *B. lingua* was synonymized by Hansen 1975
off SE Greenland, off SW Iceland, Biscay, off W Morocco - Cape Verde, Azores, off S
Canaries, off New England, West Indies, in 860-4700 m

B. typica Théel,1882

= *Benthodytes glutinosa* R. Perrier,1902

* Pelagic as juvenile. Hansen 1975 synonymized *Benthodytes glutinosa* R. Perrier
off Spain, Canaries, Azores, 48°29'N, 13°55'W, in 1400-3825 m

Psychropotes Théel,1882

= *Euphronides* Théel,1882?

= *Triconus* Hérouard,1909
= *Nectothuria* Belyaev & Vinogradov,1969

P. depressa (Théel,1882)

= *Euphronides cornuta* Verrill,1884
= *Euphronides auricularia* R. Perrier,1902
= *Euphronides talismani* R. Perrier,1896
= *Euphronides violacea* Perrier,1902
* Pelagic as juvenile; adults may swim for short periods. Hansen 1975 synonymized *Euphronides cornuta* Verrill and *Euphronides talismani* R. Perrier,1896 off S & SW Iceland, off SW Ireland, 38°N, 29°25'W, off Spain, off Portugal, off Gibraltar, off Canaries, off E North America, in 957-2500 m

P. grimaldii Hérouard,1896
off Azores, in 4020 m

P. longicauda Théel,1882

= *Psychropotes buglossa* R. Perrier,1896
= *Psychropotes furcata* R. Perrier,1896
= *Nectothuria translucida* Belyaev & Vinogradov,1969
* Pelagic as juvenile. *P. buglossa* R. Perrier and *P. furcata* R. Perrier was synonymized by Hansen 1975 off Biscay, off Canaries, off E Azores, 43°15'N, 21°40'W, cosmopolitan, in 2110-5005 m

P. semperiana Théel,1882

= *Euphronides anchora* Hérouard,1912
= *Psychropotes Kerhervei* Hérouard,1896
= *Euphronides kerhervei* (Hérouard,1896)
Azores - Canaries, in 3825-5005 m
* Hansen 1975 synonymized *Euphronides anchora* Hérouard and *E. kerkervei* (Hérouard)
31°45'N, 42°42'W, in 3465 m

Pelagothuridae Ludwig,1894

= Planktothuridae Heding,1950
* Swimming forms.

Pelagothuria Ludwig,1894 (TM *P. natatrix* Ludwig,1894 - Pacific Central America)
* no species in N Atlantic

Enypniastes Théel,1882 (TM *E. eximia* Théel,1882 - Indo/Pacific?)

= *Euryplastes* Koehler & Vaney,1905
= *Planktothuria* Gilchrist,1920 (TM *P. diaphana* Gilchrist,1920 - off South Africa)

E. eximia Théel,1882

= *Planktothuria diaphana* Gilchrist,1920
= *Pelagothuria Bouvieri* Hérouard,1906
* *E. diaphana* (Gilchrist) is synonymized by Gebruk 1989 and Miller & Pawson 1990 off SW Ireland, off Portugal, off Azores, off Cape Verde, 31°38'N, 42°38'W, swimming between bottom (usually 995-4980 m) and surface water, 47°12.6'N, 19°37'W, 49°44.2' N, 14°01.4'W (Gebruk, Tyler & Billett 1997)

APODACEA

APODIDA Brandt,1835

Synaptidae Burmeister,1837

Epitomapta Heding,1928

E. roseola (Verrill,1874)

= *Leptosynapta roseola* Verrill,1874

30°30'50''N, 9°49'20''W, in 75 m (also Massachusetts, Connecticut, Bermuda)

Euapta Östergren,1898

E. lappa (J. Müller,1850)

= *Synapta lappa* J. Müller,1850

?Teneriffe, ?St. Helena, Ascension, West Indies & Caribbean

Labidoplax Östergren,1898 (TM *Synapta tenera* Norman,1865, nom. nud. - Britain?)

= *Lapidoplax* Grieg,1912

L. buskii (M'Intosh,1866)

= *Synapta tenera* Norman,1865 (nomen nudum)

= *Synapta buskii* M'Intosh,1866

Kattegatt-Bohuslän, all Norway, Murmansk, North Sea, Faeroes, Clyde Sea, Hebrides, NW France, Mediterranean, in 10-420 m

L. media Östergren,1905

Stavanger - Bergen areas, Shetlands & northernmost North Sea, Hebrides, N Ireland, Mediterranean

L. similimedia Gage,1985

Rockall Trough, in 1000-2925 m

L. southwardorum Gage,1985

Rockall Trough, in 1000-2925 m

Leptosynapta Verrill,1867 (TM *Holothuria inhaerens* O.F. Müller,1776 - Kristiansand)

L. bergensis (Östergren,1905)

= *Synapta bergensis* Östergren,1905

Kattegatt-Bohuslän, Norway between 58-64°, N North Sea - Helgoland, Faeroes, Hebrides, W Ireland, Engl. Channel, northern part of W France, in 5-50 m

L. decaria (Östergren,1905)

= *Synapta decaria* Östergren,1905

Kattegatt-Bohuslän, Norway between 58-64°, central North Sea, Isle of Man, off NW Ireland, Mediterranean, in (2) 40-70 m

L. galliennii (Herapath,1865)

= *Synapta Galliennii* Herapath,1865

= *Synapta sarniensis* Herapath,1865

Atlantic France, in the littoral region

L. inhaerens (O.F. Müller,1776)

= *Holothuria inhaerens* O.F. Müller,1776

= *Synapta duvernaea* de Quatrefages,18??

Öresund-Kattegatt-Bohuslän, Norway N. to 68°, North Sea, E Scotland, Shetlands, Faeroes, Ireland, W Britain, W France, Portugal, Canaries, Mediterranean, in 0-50 m

L. makrankyra (Ludwig,1898)

= *Synapta makrankyra* Ludwig,1898

Mediterranean

L. minuta (Becher,1906)

= *Synapta minuta* Becher,1906

Bergen, Helgoland, Engl. Channel, W Scotland, N & SW Ireland, NW Spain,
Mediterranean, in 5-20 (50) m

Oestergrenia Heding,1931 (TM *Holothuria digitata* Montagu,1815 - Devonshire)

= *Mulleria* Fleming,1828, non Férussac,1824 (nec *Mülleria* Leach,1814)

O. adriatica (Heding,1931)

= *Labidoplax (Oestergrenia) adriatica* Heding,1931

Adriatic

O. digitata (Montagu,1815)

= *Holothuria digitata* Montagu,1815

= *Labidoplax digitata* : Auctt.

Northern North Sea, Shetlands, W Britain, W France, Mediterranean, in 2- 70 (600) m

O. digitata var. ***profundicola*** Kemp,1905

= *Labidoplax digitata* var. *profundicola* Kemp,1905

* possibly a dubious taxon according to Mortensen 1927
off W Ireland, in 66-268 m

O. mortenseni (Heding,1931)

= *Labidoplax (Oestergrenia) mortenseni* Heding,1931

Mediterranean, Suez Channel

O. thomsoni (Herapath,1865)

= *Synapta digitata* var. *Thomsonii* Herapath,1865

= *Labidoplax thomsoni* (Herapath,1865)

Belfast, Atlantic France, Mediterranean

Protankyra Östergren,1898

P. abyssicola (Théel,1886)

= *Synapta abyssicola* Théel,1886

Biscay, off Senegal, E North America & West Indies, in 2259-4870 m

Rhabdomolgus Keferstein,1863 (TM *Rhabdomolgus ruber* Keferstein,1863 - N. coast
of France)

R. ruber Keferstein,1863

Helgoland, Troms, off Bretagne, in 20 m

Synaptula Oersted, 1849

S. reciprocans (Forskal,1775)

= *Synapta reciprocans* Forskal,1775

Red Sea, Cyprus, Egypt, Rhode Islands

Chiridotidae Östergren,1898

Achiridota Clark,1908 (TM *Anapta inermis* Fisher,1??? - Hawai)

A.? ingolfi Heding,1935

Davis Strait, in 2258 m

A. profunda Heding,1935

Davis Strait, in 2700 m

Chiridota Eschscholtz,1829 (™ *Chiridota discolor* Eschscholtz,1829 - NE. Pacific)
= *Chirodota* Jaeger,1833

C. abyssicola von Marenzeller,1893
off Azores, in 2870 m

C. laevis (O. Fabricius,1780)
= *Holothuria laevis* O. Fabricius,1780
= *Holothuria pellucida* Vahl,1806
= *Chiridota spirourna* Heding,1935
= *Chiridota groenlandica* Heding,1935
Norway S. to 68° or perhaps 60.5°, Spitsbergen, White Sea, Kara Sea, Iceland, S & W
Greenland, Maine, Fundy Bay, in 0-700 m

Trochodota Ludwig,1892 (™ *Holothuria (Fistularia) purpurea* Lesson,1831 - ?)

T. furcipraedita Salvini Plawen,1972
Mediterranean

T. venusta (Semon,1887)
= *Chiridota venusta* Semon,1887
Mediterranean

Myriotrochidae Théel,1877

Acanthotrochus Danielssen & Koren,1879 (™ *Acanthotrochus mirabilis* Danielssen
& Koren,1879 - Norw. Sea)

A. mirabilis Danielssen & Koren,1879
Norwegian Sea basin, in 1015-3900 m

Myriotrochus Steenstrup,1851 (™ *Myriotrochus rinkii* Steenstrup,1851 - SW
Greenland)
= *Oligotrochus* M. Sars,1866

M. bathybius H.L. Clark,1920
NE Atlantic, deep

M. clarki Gage & Billett,1986
Scotland

M. giganteus Clark,1920
NE Atlantic, deep

M. rinkii Steenstrup,1851
Norway S. to Finnmark, Jan Mayen, Spitsbergen, Novaja Zemlja, Kara Sea, N Iceland,
E & W Greenland, Labrador, arctic circumpolar, in 2-720 m

M. eurycyclus Heding,1935
NE Greenland, off E Spitsbergen, E Barents Sea, Kara Sea, in 8-158 m

M. geminiradiatus Salvini-Plawen,1977
Adriatic

M. theeli Östergren,1905
Norwegian Sea basin, in 600-3900 m

M. vitreus (M. Sars,1872)
= *Chiridota brevis* Huxley,1852
= *Oligotrochus vitreus* M. Sars,1872
= *Chiridota laevis* C.G.J. Petersen,1898
Skagerrak, Norway N. to 68°, in 100-700 m

Parvotrochus Gage & Billett,1986 (*P. belyaevi* Gage & Billett,1986 - Scotland)

P. belyaevi Gage & Billett,1986
Scotland, deep

Siniotrochus Pawson,1971

S. myriodontus Gage & Billett,1986
NE Atlantic, deep

Trochoderma Théel,1877 (TM *Trochoderma elegans* Théel,1877 - Novaja Zemlja)

T. elegans Théel,1877
off SE Faeroes, E. Finnmark, Novaja Zemlja, Kara Sea, New Siberina Island - E
Greenland, Scoresby Sound, in 9-700 m

MOLPADIIDA Haeckel,1896

Molpadiidae J. Müller,1850, emend. Heding,1931
= **Trochostomidae** Östergren,1907

Cherbonniera Sibuet,1974 (TM *C. utriculus* Cherbonnier,1974 - Biscay)

C. utriculus Sibuet,1974
Rockall Trough, Porcupine Seabight, Biscay, in 2039-4250 m

Molpadia (Cuvier,1817) Risso,1826 (TM *Molpadia musculus* Risso,1826 - Mediterr.)
= *Trochostoma* Danielssen & Koren,1878
= *Haplodactyla* Théel,1886 (p.p.)
= *Ankyroderma* : Ludwig,1890, non Danielssen & Koren,1879
= *Paratrochostoma* Heding,1931 (TM *Paratrochostoma spiniferum* Heding,1932 -
Davis Strait)
= *Eumolpadia* Heding,1935 (TM *Eumolpadia asaphes* Heding,1935 - Davis Strait)
= *Paramolpadia* Heding,1935 (TM *Molpadia diploa* Heding,1935 - Norw. Sea)

M. blakei (Théel,1886)
= *Trochostoma blakei* Théel,1886
= *Trochostoma blakei* var *excentrica* Hérouard,1???
= *Trochostoma grossularia* Hérouard,1???
= *Paratrochostoma spiniferum* Heding,1932
off SE Greenland, Davis Strait, Biscay - Senegal, West Indies, in 1747-5270 m

M. borealis M. Sars,1859
= *Haplodactyla arctica* von Marenzeller,1877
= *Molpadia oolitica* Mortensen 1914 non Pourtalès,1851
= *Ankyroderma affine* Danielssen & Koren,1882
= *Ankyroderma jeffreysii* Danielssen & Koren,1878
= *Trochostoma arctica* Danielssen & Koren,1880 non (von Marenzeller,1877)
= *Trochostoma boreale* (M. Sars)
= *Trochostoma thomsonii* Danielssen & Koren,1879
= *Molpadia* (*Paramolpadia* Heding,1935) *diploa* Heding,1935

* *M. borealis arctica* von Marenzeller, 1877 is found east of Novaja Zemlja and considered as a subspecies by Madsen & Hansen 1994
Norway S. to 70° & slope S to 62°, NE Greenland, Iceland, Norwegian Sea Basin, Kara Sea, Rockall Trough, in 40 -2000 m

M. loricata (R. Perrier, 1898)
= *Ankyroderma loricatum* Perrier, 1898
off Portugal - Cape Verde, in 1090-2324 m

M. maroccana (Perrier, 1898)
= *Ankyroderma maroccana* Perrier, 1898
30°9'N, 14°1'W, in 2210 m

M. musculus Risso, 1826
= *Haplodactyla mediterranea* Grube, 1840
= *Ankyroderma Danielsseni* Théel, 1886
= *Trochostoma violaceum* : Théel, 1886
= *Ankyroderma perrieri* Petit, 1???
= *Ankyroderma hispanicum* Petit, 1???
= *Eumolpadia asaphes* Heding, 1935
Davis Strait, off Portugal, off Canaries, Mediterranean, in 35-5205 m

M. oolitica (Pourtalès, 1851)
?Greenland - ?West Indies

Gephyrothuriidae

* No species in N. European Seas above abyssal depths.

Eupyrgidae Semper, 1868
= Caudinidae Heding, 1931

Eupyrgus Lütken, 1857 (™ *Eupyrgus scaber* Lütken, 1857 - SW Greenland)
= *Echinosoma* Semper, 1868

E. scaber Lütken, 1857
= *Echinosoma hispidum* Semper, 1868
East Finnmark, Spitsbergen, Novaja Zemlja, N Siberia, E & SW Greenland, Labrador,
Gulf of St Lawrence, in 5-480 m

Caudina Stimpson, 1853 (™ *Chiridota arenata* Gould, 1841 - Massachusetts)

C. arenata (Gould, 1841)
= *Chiridota arenata* Gould, 1841
Massachusetts, in shallow waters

Hedingia Deichmann, 1938 (™ *Trochostoma albicans* Théel, 1886 - ?)

H. albicans (Théel, 1886) Deichmann, 1938
= *Trochostoma albicans* Théel, 1886
= *Molpadia albicans* : Auctt.
off S Iceland, 16°38'N, 20°44'W, E. North America, Indo-Pacific, in 486-3200 m

H. mediterranea (Bartolini Baldelli, 1914) Tortonese, 1963
= *Trochostoma mediterraneum* Bartolini Baldelli, 1914
Mediterranean, in 800-1005 m

EDRIOASTEROIDEA

† Extinct

<u>HELICOPLACOIDEA</u>	† Extinct
<u>OPHIOCISTIOIDEA</u>	† Extinct
<u>CYCLOCYSTOIDEA</u>	† Extinct
<u>HOMALOZOA</u>	† Extinct
<u>HOMOSTELEA</u>	† Extinct
<u>HOMOIOSTELEA</u>	† Extinct
<u>STYLOPHORA</u>	† Extinct

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